ARBITRATION UNDER ANNEX VII OF THE UNITED NATIONS
CONVENTION ON THE LAW OF THE SEA

REPUBLIC OF THE PHILIPPINES

v.

PEOPLE'S REPUBLIC OF CHINA

MEMORIAL OF THE PHILIPPINES

VOLUME II
MAPS, CHARTS AND FIGURES

30 MARCH 2014

VOLUME II

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Annex M15 SinoMaps Press, Map of the People's Republic of China (1990)

Annex M16 China Cartographic Publishing House, Map of the People's Republic of China (June 1992)

Annex M17 China Cartographic Publishing House, Map of the People's Republic of China (Aug. 1995)

Annex M18 SinoMaps Press, Map of the People's Republic of China (2007)

MAP ATTACHED TO CHINA'S NOTES VERBALES
Nos. CML/17/2009 & CML/18/2009
(7 May 2009)

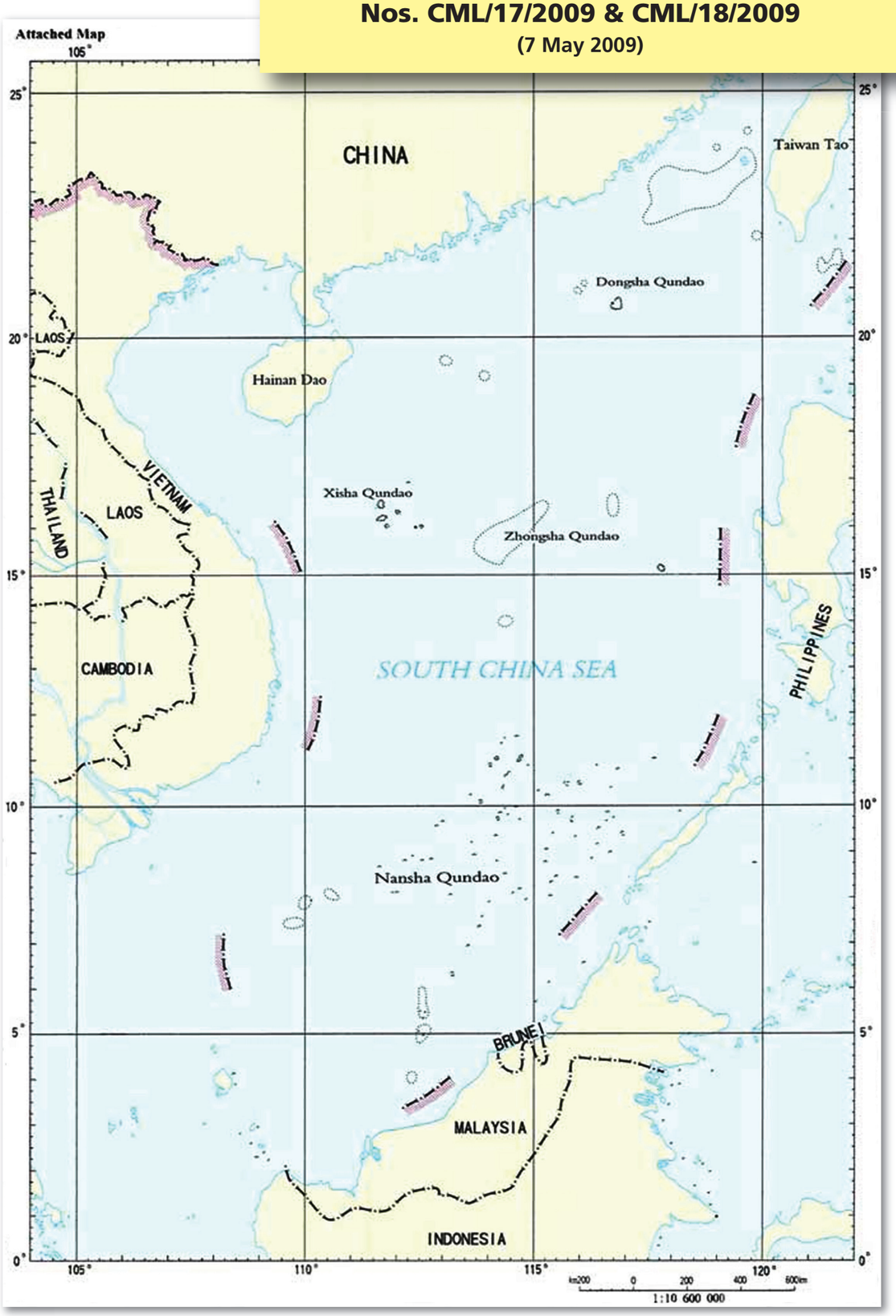


Figure 1.1

THE SOUTH CHINA SEA
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400 500
Nautical Miles
0 200 400 600 800 1,000
Kilometers
Prepared by: International Mapping
100°E
110°E
120°E
20°N
10°N
0°
CHINA
Taiwan
Pratas I.
LAOS
Gulf of Tonkin
Hainan
THAILAND
Paracel Islands
West Philippine Sea
Scarborough Shoal
Luzon
CAMBODIA
Mindoro
VIETNAM
THE PHILIPPINES
SOUTH CHINA SEA
Spratly Islands
Gulf of Thailand
Palawan
Sulu Sea
Disputed Territory
BRUNEI
MALAYSIA
INDONESIA
SINGAPORE
MALAYSIA
Celebes Sea
INDONESIA
INDONESIA
INDIAN OCEAN

Figure 2.1

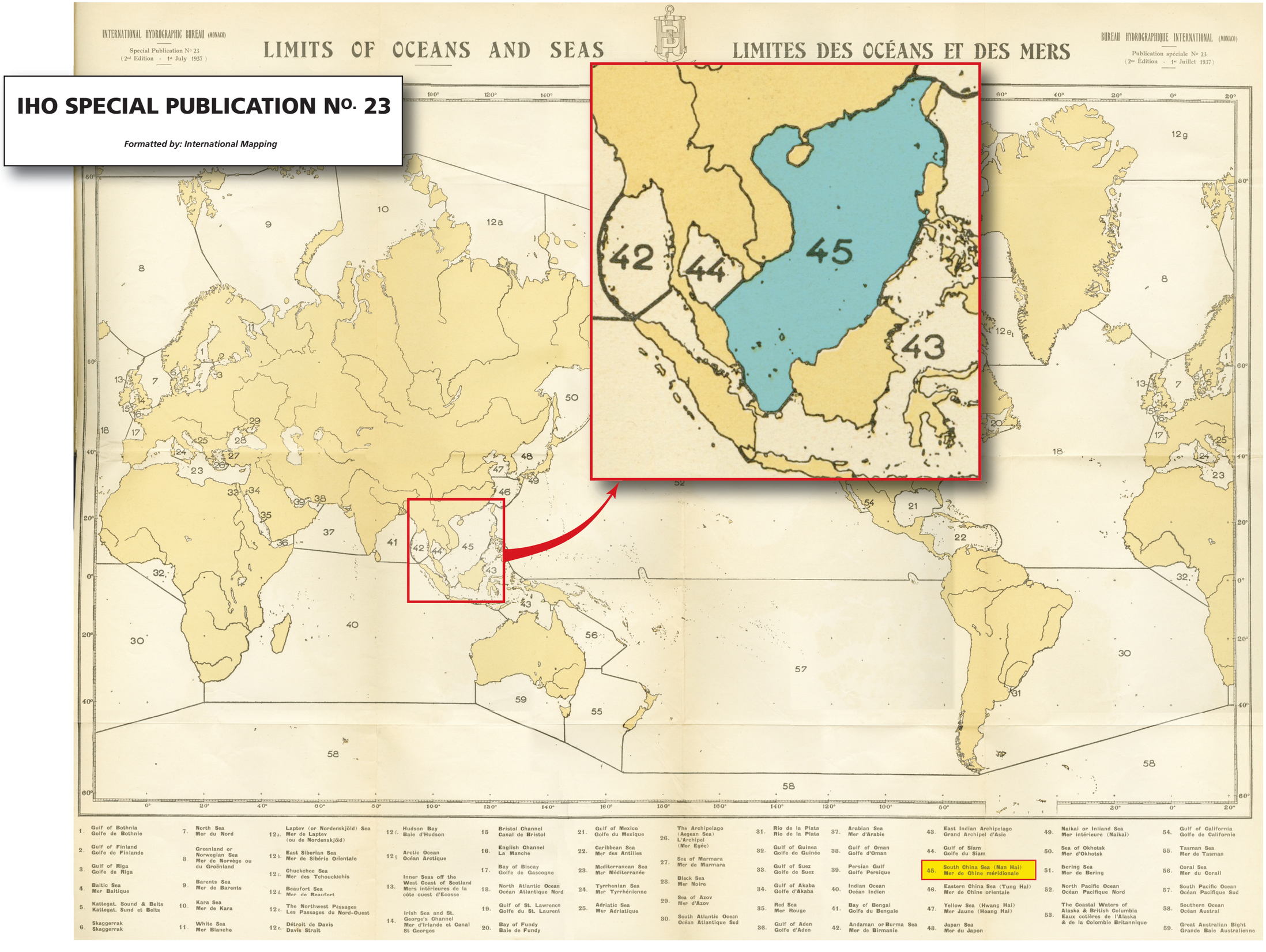
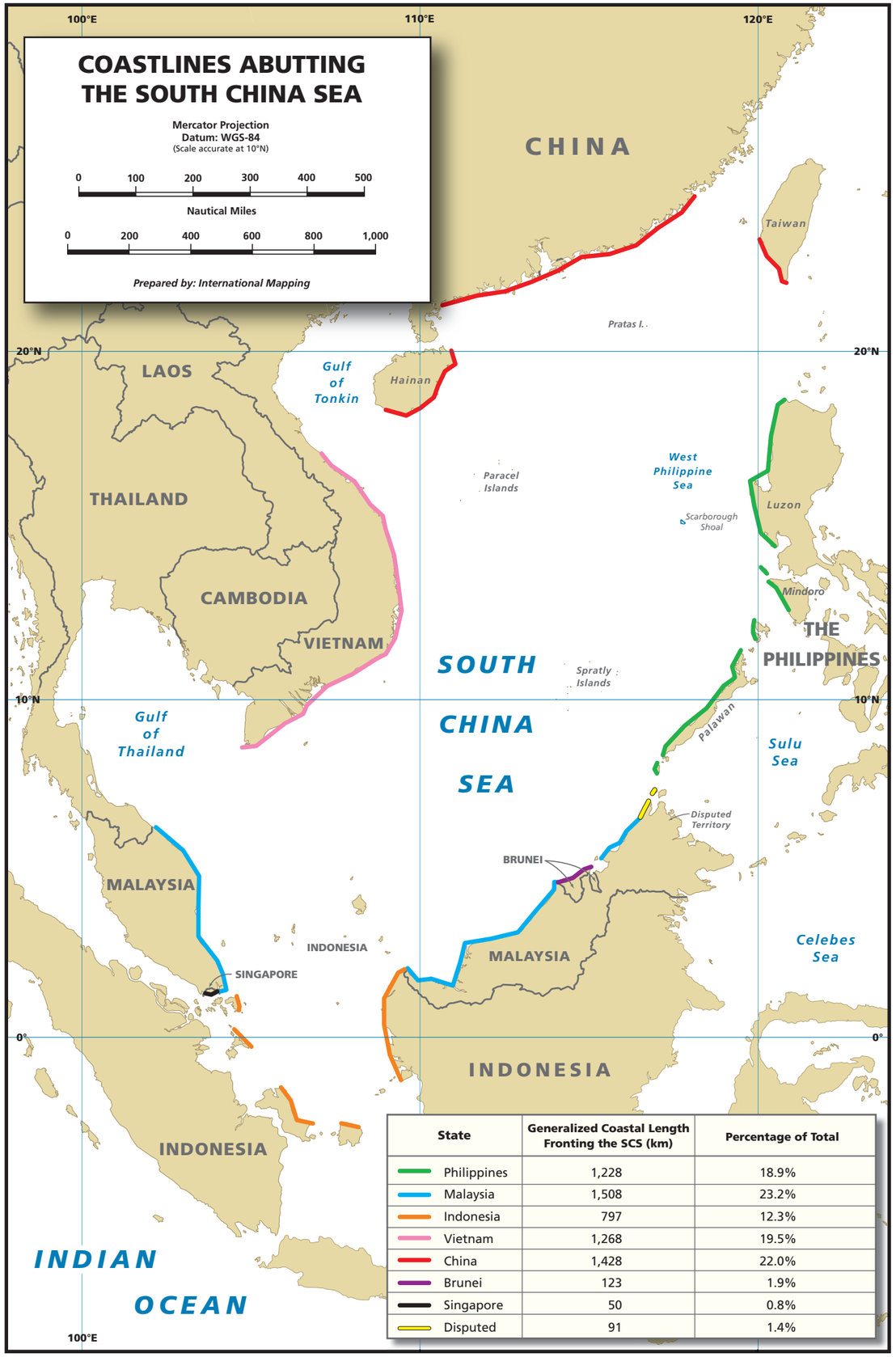

INTERNATIONAL HYDROGRAPHIC BUREAU (MONACO)
Special Publication N° 23
(2nd Edition - 1st July 1937)
LIMITS OF OCEANS AND SEAS
LIMITES DES OCÉANS ET DES MERS
BUREAU HYDROGRAPHIQUE INTERNATIONAL (MONACO)
Publication spéciale N° 23
(2e Édition - 1er Juillet 1937)
IHO SPECIAL PUBLICATION Nº. 23
Formatted by: International Mapping
1. Gulf of Bothnia Golfe de Bothnie
2. Gulf of Finland Golfe de Finlande
3. Gulf of Riga Golfe de Riga
4. Baltic Sea Mer Baltique
5. Kattegat, Sound & Belts Kattegat, Sund et Belts
6. Skaggerrak Skaggerrak
7. North Sea Mer du Nord
8. Greenland or Norwegian Sea Mer de Norvège ou du Groënland
9. Barents Sea Mer de Barents
10. Kara Sea Mer de Kara
11. White Sea Mer Blanche
12a. Laptev (or Nordenskjöld) Sea Mer de Laptev (ou de Nordenskjöld)
12b. East Siberian Sea Mer de Sibérie Orientale
12c. Chuckchee Sea Mer des Tchouckichis
12d. Beaufort Sea Mer de Beaufort
12e. The Northwest Passages Les Passages du Nord-Ouest
12f. Détroit de Davis Davis Strait
12g. Hudson Bay Baie d'Hudson
12h. Arctic Ocean Océan Arctique
13. Inner Seas off the West Coast of Scotland Mers intérieures de la côte ouest d'Ecosse
14. Irish Sea and St. George's Channel Mer d'Irlande et Canal St Georges
15. Bristol Channel Canal de Bristol
16. English Channel La Manche
17. Bay of Biscay Golfe de Gascogne
18. North Atlantic Ocean Océan Atlantique Nord
19. Gulf of St. Lawrence Golfe du St. Laurent
20. Bay of Fundy Baie de Fundy
21. Gulf of Mexico Golfe du Mexique
22. Caribbean Sea Mer des Antilles
23. Mediterranean Sea Mer Méditerranée
24. Tyrrhenian Sea Mer Tyrrhénienne
25. Adriatic Sea Mer Adriatique
26. The Archipelago (Aegean Sea) L'Archipel (Mer Egée)
27. Sea of Marmara Mer de Marmara
28. Black Sea Mer Noire
29. Sea of Azov Mer d'Azov
30. South Atlantic Ocean Océan Atlantique Sud
31. Rio de la Plata Rio de la Plata
32. Gulf of Guinea Golfe de Guinée
33. Gulf of Suez Golfe de Suez
34. Gulf of Akaba Golfe d'Akaba
35. Red Sea Mer Rouge
36. Gulf of Aden Golfe d'Aden
37. Arabian Sea Mer d'Arabie
38. Gulf of Oman Golfe d'Oman
39. Persian Gulf Golfe Persique
40. Indian Ocean Océan Indien
41. Bay of Bengal Golfe du Bengale
42. Andaman or Burma Sea Mer de Birmanie
43. East Indian Archipelago Grand Archipel d'Asie
44. Gulf of Siam Golfe du Siam
45. South China Sea (Nan Hai) Mer de Chine méridionale
46. Eastern China Sea (Tung Hai) Mer de Chine orientale
47. Yellow Sea (Hwang Hai) Mer Jaune (Hoang Hai)
48. Japan Sea Mer du Japon
49. Naikai or Inland Sea Mer intérieure (Naikai)
50. Sea of Okhotsk Mer d'Okhotsk
51. Bering Sea Mer de Bering
52. North Pacific Ocean Océan Pacifique Nord
53. The Coastal Waters of Alaska & British Columbia Eaux côtières de l'Alaska & de la Colombie Britannique
54. Gulf of California Golfe de Californie
55. Tasman Sea Mer de Tasman
56. Coral Sea Mer du Corail
57. South Pacific Ocean Océan Pacifique Sud
58. Southern Ocean Océan Austral
59. Great Australian Bight Grande Baie Australienne

Figure 2.2



State	Generalized Coastal Length Fronting the SCS (km)	Percentage of Total
Philippines	1,228	18.9%
Malaysia	1,508	23.2%
Indonesia	797	12.3%
Vietnam	1,268	19.5%
China	1,428	22.0%
Brunei	123	1.9%
Singapore	50	0.8%
Disputed	91	1.4%

Figure 2.3

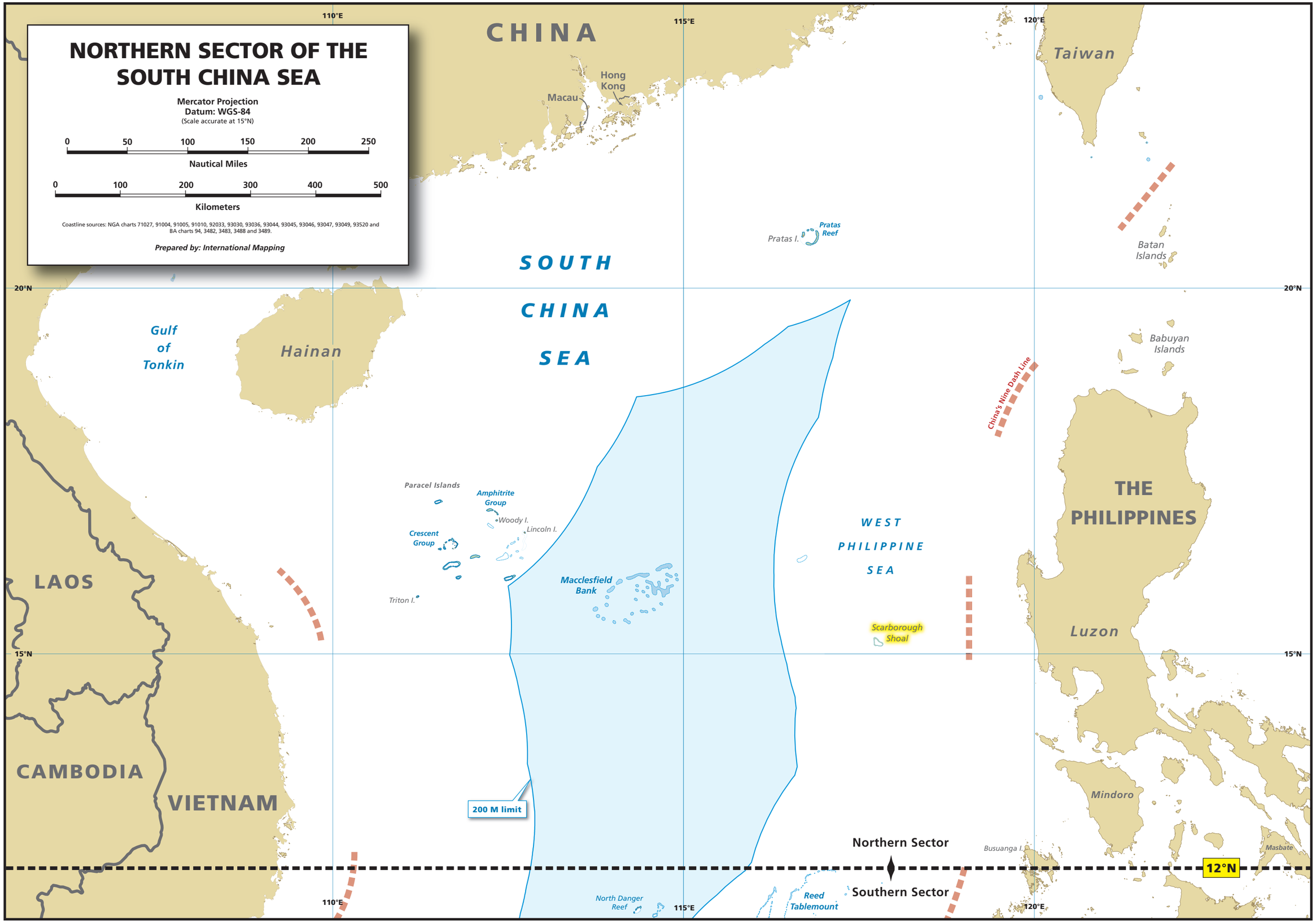

NORTHERN SECTOR OF THE SOUTH CHINA SEA
Mercator Projection
Datum: WGS-84
(Scale accurate at 15°N)
0 50 100 150 200 250
Nautical Miles
0 100 200 300 400 500
Kilometers
Coastline sources: NGA charts 71027, 91004, 91005, 91010, 92033, 93030, 93036, 93044, 93045, 93046, 93047, 93049, 93520 and BA charts 94, 3482, 3483, 3488 and 3489.
Prepared by: International Mapping
110°E
115°E
120°E
20°N
15°N
12°N
CHINA
Hong Kong
Macau
Taiwan
Pratas I.
Pratas Reef
Batan Islands
SOUTH CHINA SEA
Gulf of Tonkin
Hainan
Babuyan Islands
China's Nine Dash Line
THE PHILIPPINES
Paracel Islands
Amphitrite Group
Woody I.
Lincoln I.
Crescent Group
Triton I.
Macclesfield Bank
WEST PHILIPPINE SEA
Scarborough Shoal
Luzon
LAOS
CAMBODIA
VIETNAM
Mindoro
200 M limit
Northern Sector
Southern Sector
Busuanga I.
Masbate
North Danger Reef
Reed Tablemount

Figure 2.4

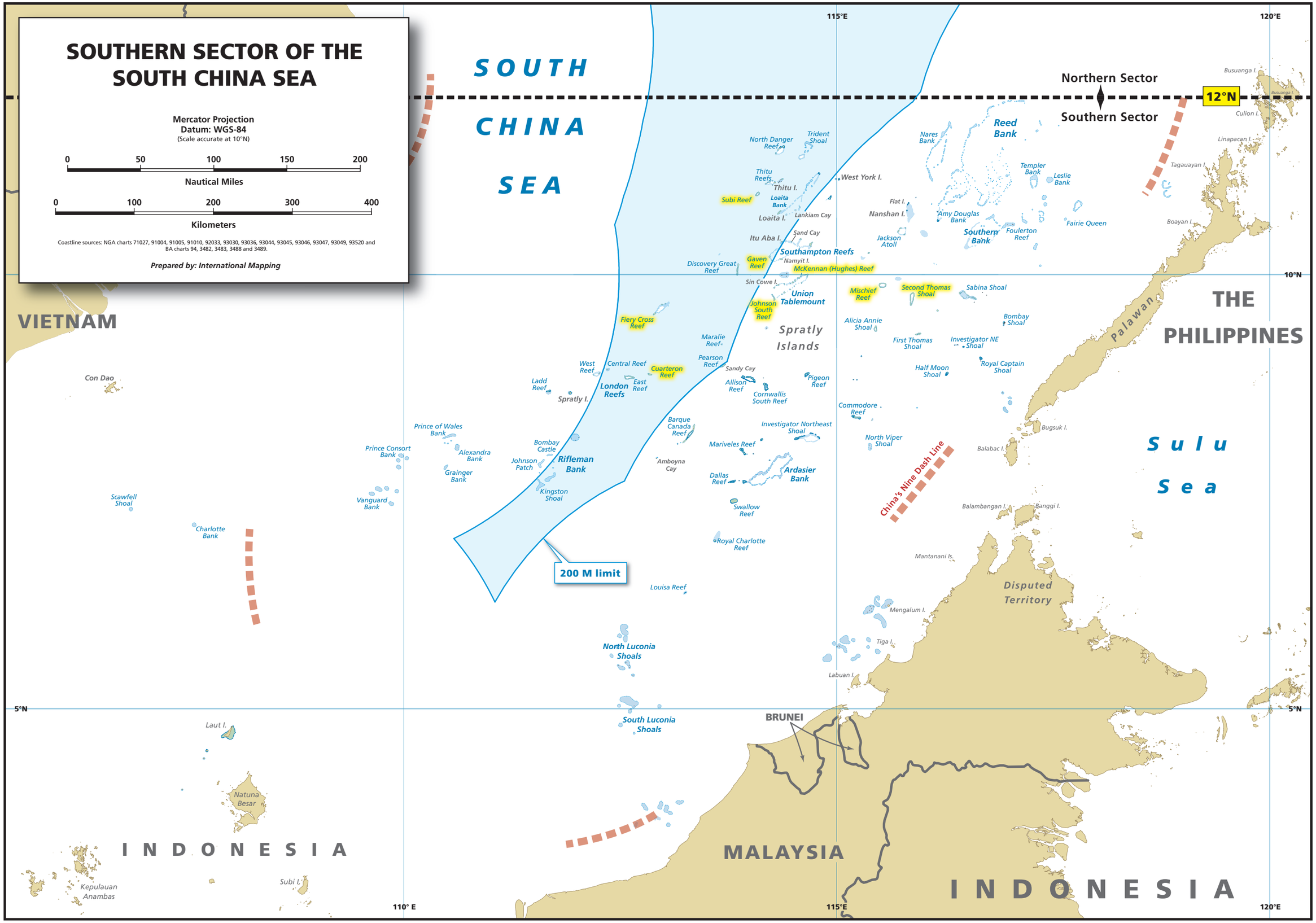

SOUTHERN SECTOR OF THE SOUTH CHINA SEA
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 50 100 150 200
Nautical Miles
0 100 200 300 400
Kilometers
Coastline sources: NGA charts 71027, 91004, 91005, 91010, 92033, 93030, 93036, 93044, 93045, 93046, 93047, 93049, 93520 and BA charts 94, 3482, 3483, 3488 and 3489.
Prepared by: International Mapping
SOUTH CHINA SEA
Northern Sector
Southern Sector
12°N
10°N
5°N
115°E
120°E
110° E
VIETNAM
THE PHILIPPINES
INDONESIA
MALAYSIA
BRUNEI
Sulu Sea
Palawan
Disputed Territory
China's Nine Dash Line
200 M limit
Spratly Islands
Reed Bank
Union Tablemount
Southampton Reefs
Southern Bank
Ardasier Bank
Rifleman Bank
London Reefs
North Luconia Shoals
South Luconia Shoals
Con Dao
Laut I.
Natuna Besar
Kepulauan Anambas
Subi I.
Scawfell Shoal
Charlotte Bank
Prince of Wales Bank
Prince Consort Bank
Vanguard Bank
Alexandra Bank
Grainger Bank
Bombay Castle
Johnson Patch
Kingston Shoal
Barque Canada Reef
Amboyna Cay
Mariveles Reef
Dallas Reef
Swallow Reef
Royal Charlotte Reef
Louisa Reef
Investigator Northeast Shoal
North Viper Shoal
Commodore Reef
Pigeon Reef
Cornwallis South Reef
Allison Reef
Sandy Cay
Pearson Reef
Maralie Reef
Cuarteron Reef
Fiery Cross Reef
Ladd Reef
West Reef
Central Reef
East Reef
Spratly I.
Johnson South Reef
Gaven Reef
Discovery Great Reef
Sin Cowe I.
McKennan (Hughes) Reef
Namyit I.
Itu Aba I.
Sand Cay
Loaita I.
Lankiam Cay
Loaita Bank
Subi Reef
Thitu I.
Thitu Reefs
West York I.
North Danger Reef
Trident Shoal
Nares Bank
Templer Bank
Leslie Bank
Flat I.
Nanshan I.
Amy Douglas Bank
Jackson Atoll
Foulerton Reef
Fairie Queen
Mischief Reef
Second Thomas Shoal
Sabina Shoal
Alicia Annie Shoal
Bombay Shoal
First Thomas Shoal
Investigator NE Shoal
Half Moon Shoal
Royal Captain Shoal
Busuanga I.
Culion I.
Linapacan I.
Tagauayan I.
Boayan I.
Bugsuk I.
Balabac I.
Balambangan I.
Banggi I.
Mantanani Is.
Mengalum I.
Tiga I.
Labuan I.

Figure 2.5

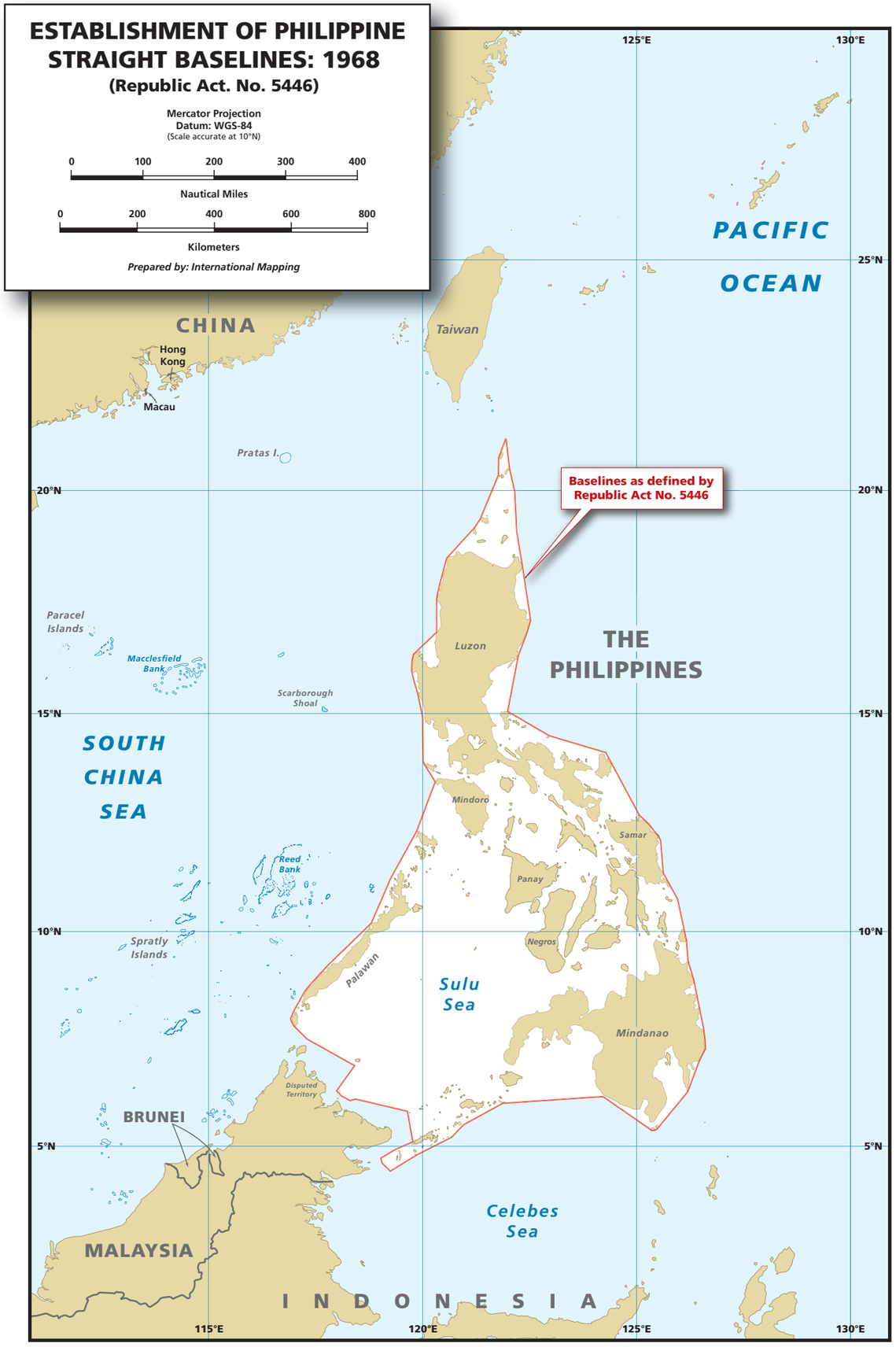

ESTABLISHMENT OF PHILIPPINE STRAIGHT BASELINES: 1968
(Republic Act. No. 5446)
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
125°E
130°E
25°N
20°N
15°N
10°N
5°N
115°E
120°E
PACIFIC OCEAN
CHINA
Hong Kong
Macau
Taiwan
Pratas I.
Baselines as defined by Republic Act No. 5446
Paracel Islands
Macclesfield Bank
Scarborough Shoal
Luzon
THE PHILIPPINES
SOUTH CHINA SEA
Mindoro
Samar
Reed Bank
Panay
Spratly Islands
Negros
Palawan
Sulu Sea
Mindanao
Disputed Territory
BRUNEI
Celebes Sea
MALAYSIA
INDONESIA

Figure 3.1

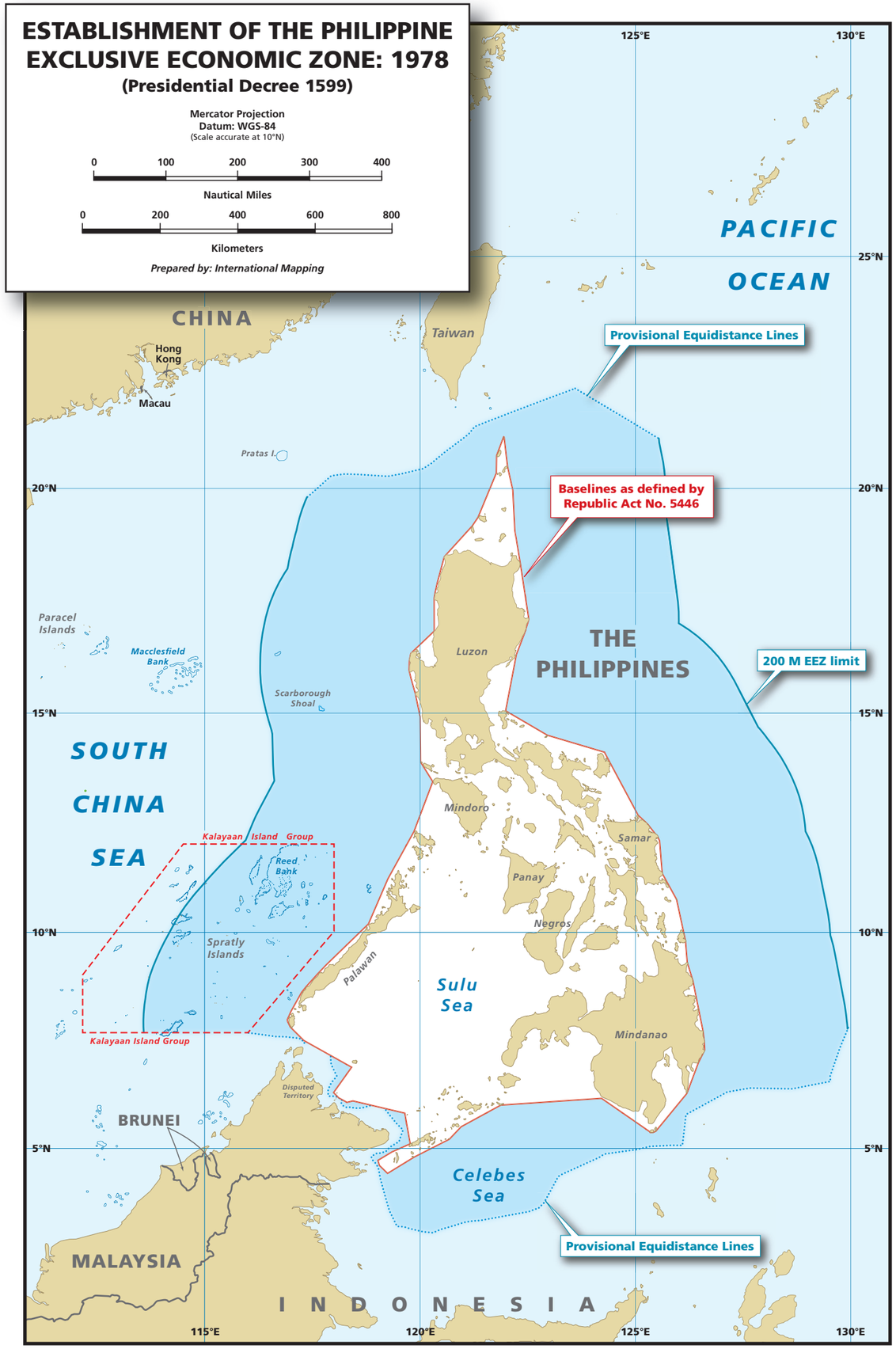

ESTABLISHMENT OF THE PHILIPPINE EXCLUSIVE ECONOMIC ZONE: 1978
(Presidential Decree 1599)
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
125°E
130°E
PACIFIC
OCEAN
25°N
CHINA
Taiwan
Hong Kong
Macau
Provisional Equidistance Lines
Pratas I.
20°N
Baselines as defined by Republic Act No. 5446
Paracel Islands
Macclesfield Bank
Luzon
THE PHILIPPINES
200 M EEZ limit
Scarborough Shoal
15°N
SOUTH
CHINA
SEA
Mindoro
Samar
Kalayaan Island Group
Reed Bank
Panay
Negros
10°N
Spratly Islands
Palawan
Sulu Sea
Mindanao
Kalayaan Island Group
Disputed Territory
BRUNEI
5°N
Celebes Sea
Provisional Equidistance Lines
MALAYSIA
I N D O N E S I A
115°E
120°E
125°E
130°E

Figure 3.2

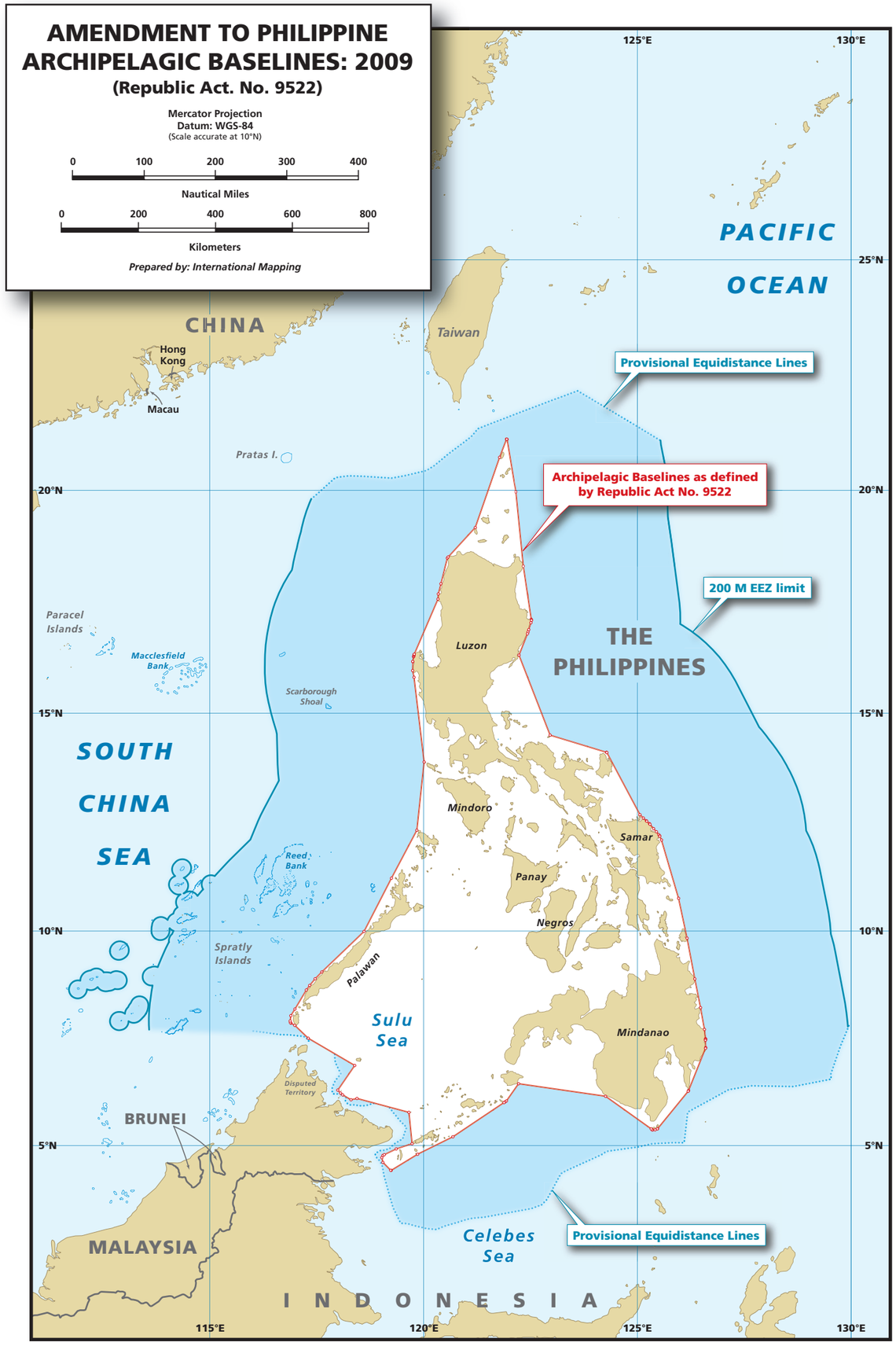

AMENDMENT TO PHILIPPINE ARCHIPELAGIC BASELINES: 2009
(Republic Act. No. 9522)
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
PACIFIC OCEAN
CHINA
Hong Kong
Macau
Taiwan
Pratas I.
Provisional Equidistance Lines
Archipelagic Baselines as defined by Republic Act No. 9522
200 M EEZ limit
Paracel Islands
Macclesfield Bank
Scarborough Shoal
Luzon
THE PHILIPPINES
SOUTH CHINA SEA
Mindoro
Samar
Reed Bank
Panay
Negros
Spratly Islands
Palawan
Sulu Sea
Mindanao
Disputed Territory
BRUNEI
MALAYSIA
Celebes Sea
Provisional Equidistance Lines
I N D O N E S I A
125°E
130°E
25°N
20°N
15°N
10°N
5°N
115°E
120°E

Figure 3.3

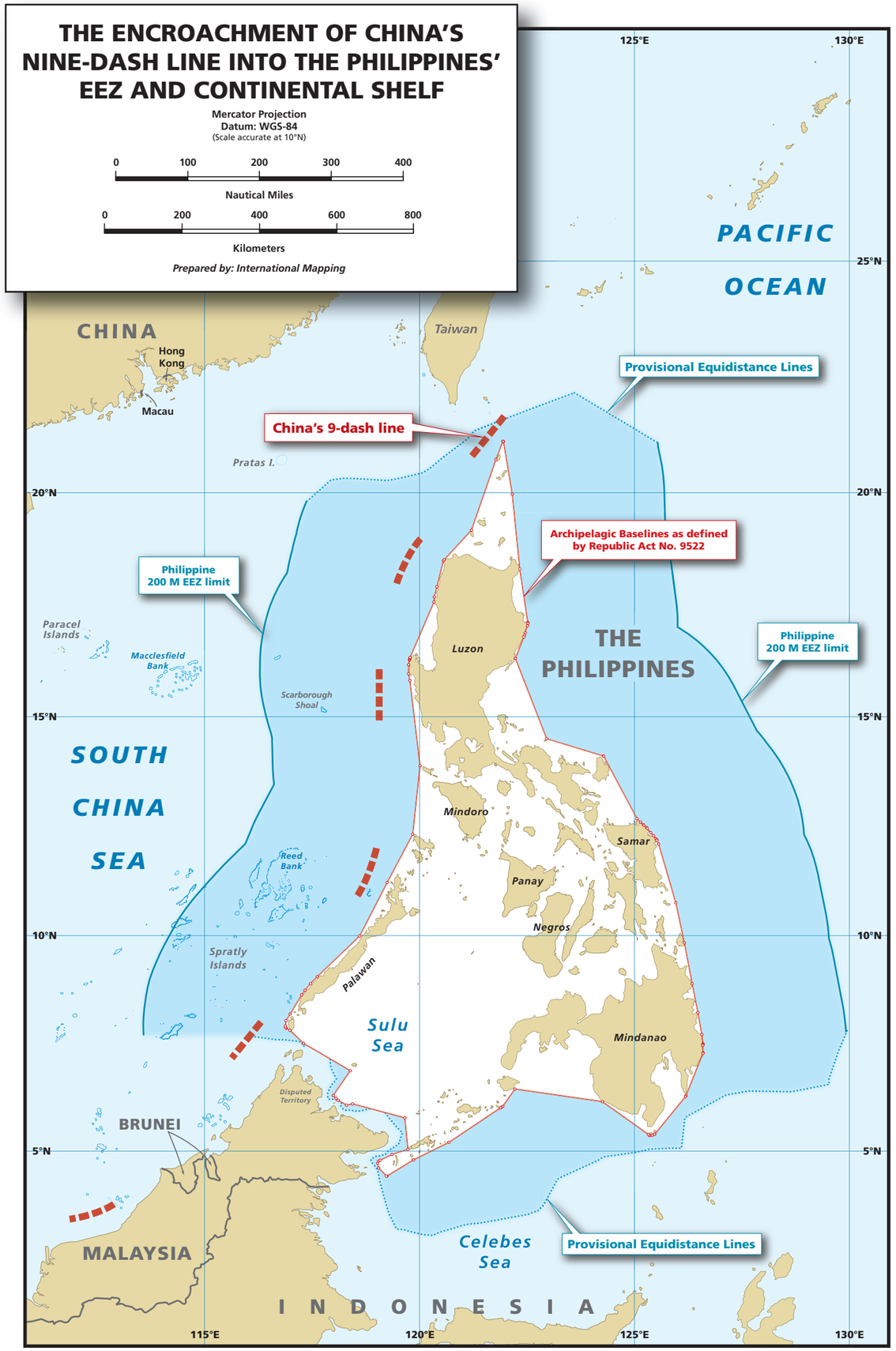

THE ENCROACHMENT OF CHINA'S NINE-DASH LINE INTO THE PHILIPPINES' EEZ AND CONTINENTAL SHELF
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
PACIFIC OCEAN
CHINA
Hong Kong
Macau
Taiwan
Provisional Equidistance Lines
China's 9-dash line
Pratas I.
Archipelagic Baselines as defined by Republic Act No. 9522
Philippine 200 M EEZ limit
Paracel Islands
Macclesfield Bank
Scarborough Shoal
Luzon
THE PHILIPPINES
Philippine 200 M EEZ limit
SOUTH CHINA SEA
Mindoro
Samar
Reed Bank
Panay
Negros
Spratly Islands
Palawan
Sulu Sea
Mindanao
Disputed Territory
BRUNEI
MALAYSIA
Celebes Sea
Provisional Equidistance Lines
I N D O N E S I A
125°E
130°E
25°N
20°N
15°N
10°N
5°N
115°E
120°E

Figure 3.4

CHINA'S ENTITLEMENTS UNDER UNCLOS COMPARED TO ITS NINE-DASH LINE CLAIM IN THE NORTHERN SECTOR

Mercator Projection
Datum: WGS-84
(Scale accurate at 15°N)

0 50 100 150 200 250
Nautical Miles

0 100 200 300 400 500
Kilometers

Coastline sources: NGA charts 71027, 91004, 91005, 91010, 92033, 93030, 93036, 93044, 93045, 93046, 93047, 93049, 93520 and BA charts 94, 3482, 3483, 3488 and 3489.

Prepared by: International Mapping

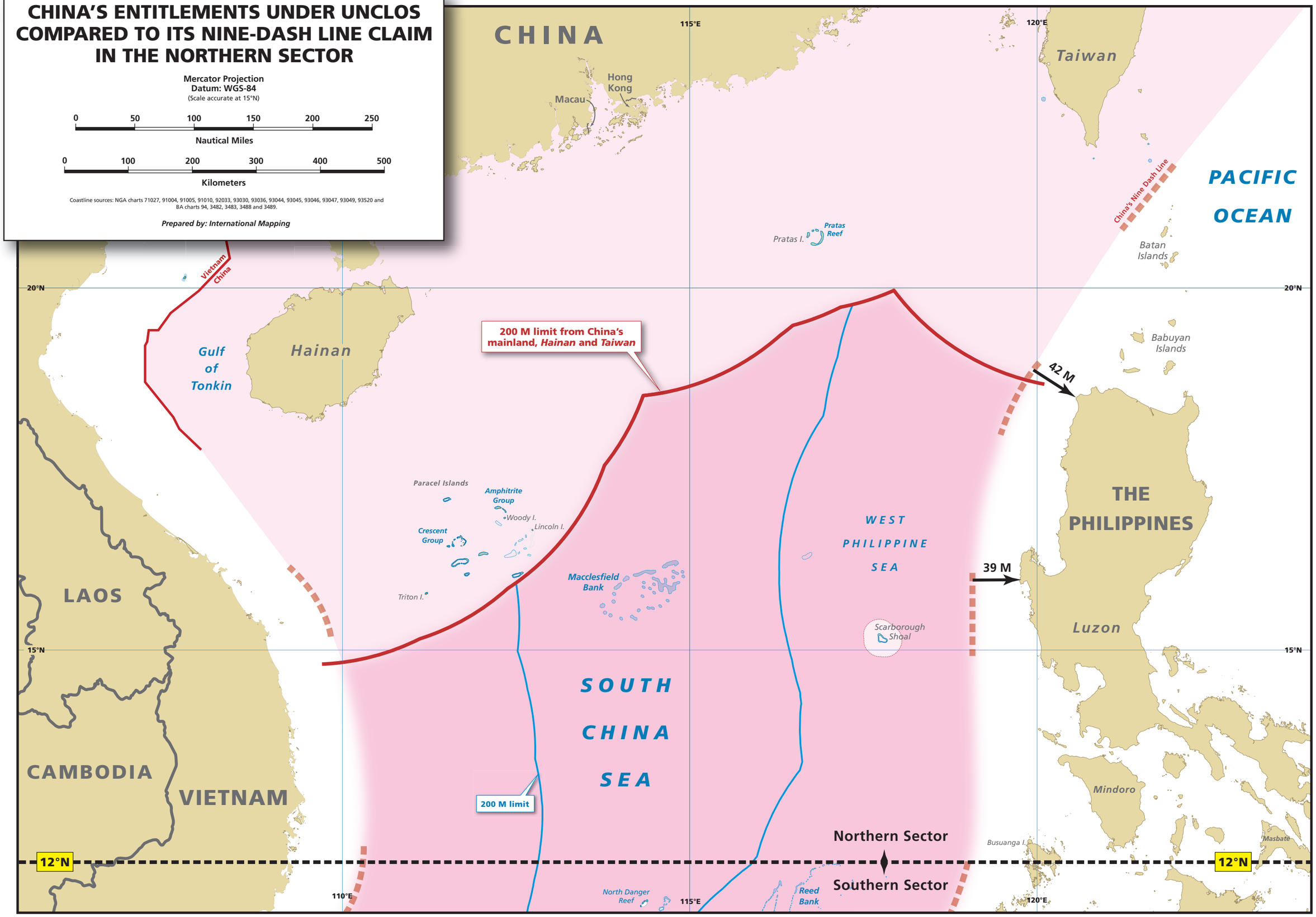


Figure 4.1

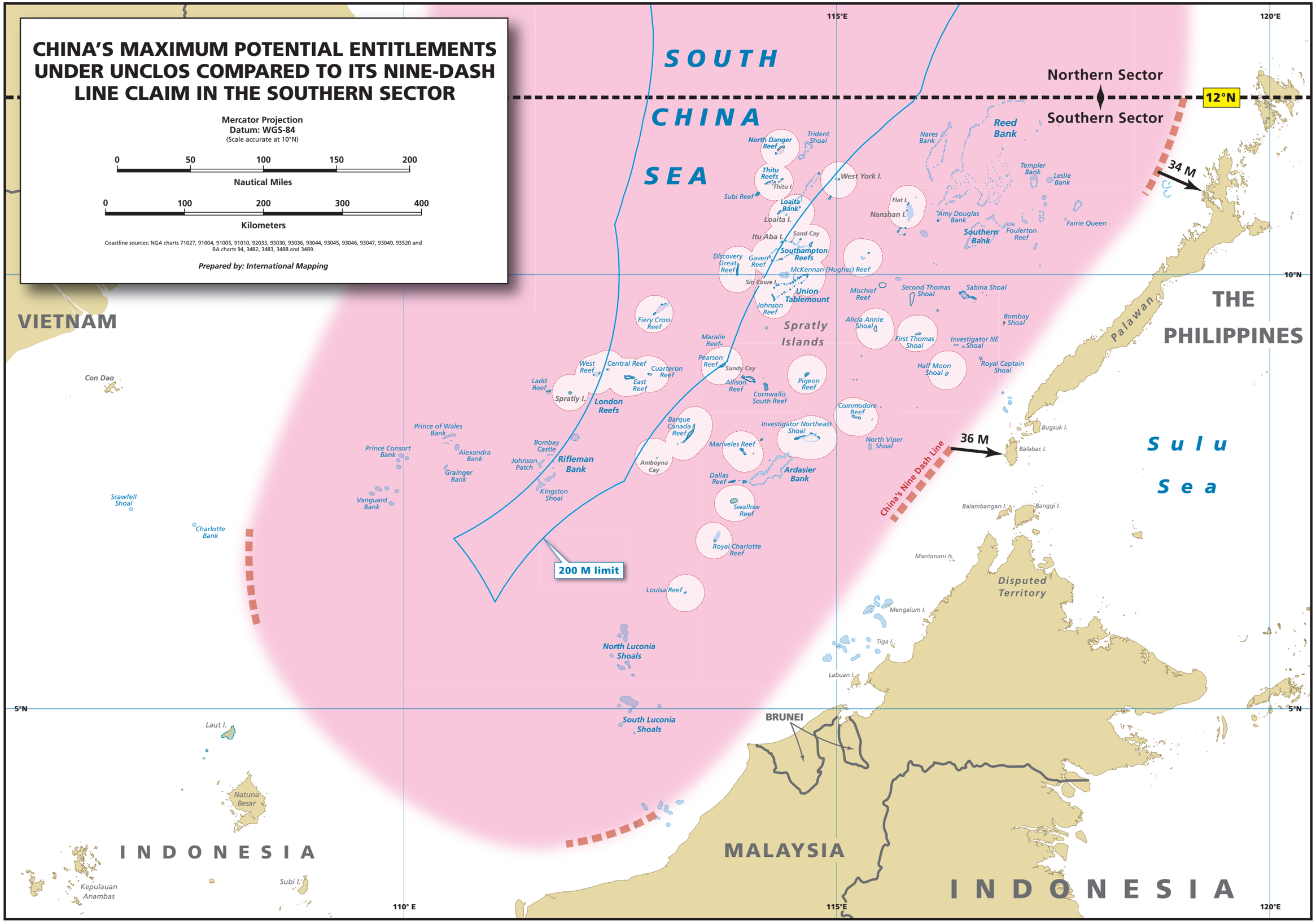

CHINA'S MAXIMUM POTENTIAL ENTITLEMENTS UNDER UNCLOS COMPARED TO ITS NINE-DASH LINE CLAIM IN THE SOUTHERN SECTOR
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 50 100 150 200
Nautical Miles
0 100 200 300 400
Kilometers
Coastline sources: NGA charts 71027, 91004, 91005, 91010, 92033, 93030, 93036, 93044, 93045, 93046, 93047, 93049, 93520 and BA charts 94, 3482, 3483, 3488 and 3489.
Prepared by: International Mapping
SOUTH CHINA SEA
Northern Sector
Southern Sector
12°N
10°N
5°N
115°E
120°E
110° E
34 M
36 M
China's Nine Dash Line
200 M limit
VIETNAM
THE PHILIPPINES
INDONESIA
MALAYSIA
BRUNEI
Sulu Sea
Palawan
Disputed Territory
Spratly Islands
Reed Bank
Union Tablemount
Southampton Reefs
Southern Bank
Ardasier Bank
Rifleman Bank
London Reefs
North Luconia Shoals
South Luconia Shoals
Con Dao
Scawfell Shoal
Charlotte Bank
Laut I.
Natuna Besar
Kepulauan Anambas
Subi I.
Bugsuk I.
Balabac I.
Balambangan I.
Banggi I.
Mantanani Is.
Mengalum I.
Tiga I.
Labuan I.
Nares Bank
Trident Shoal
North Danger Reef
Thitu Reefs
Thitu I.
West York I.
Subi Reef
Loaita Bank
Loaita I.
Itu Aba I.
Sand Cay
Discovery Great Reef
Gaven Reef
McKennan (Hughes) Reef
Sin Cowe I.
Johnson Reef
Fiery Cross Reef
Maralie Reef
Pearson Reef
Sandy Cay
Alison Reef
Cornwallis South Reef
Pigeon Reef
West Reef
Central Reef
Cuarteron Reef
East Reef
Ladd Reef
Spratly I.
Barque Canada Reef
Amboyna Cay
Marineles Reef
Investigator Northeast Shoal
Commodore Reef
North Viper Shoal
Dallas Reef
Swallow Reef
Royal Charlotte Reef
Louisa Reef
Prince of Wales Bank
Prince Consort Bank
Alexandra Bank
Grainger Bank
Vanguard Bank
Bombay Castle
Johnson Patch
Kingston Shoal
Templer Bank
Leslie Bank
Flat I.
Nanshan I.
Amy Douglas Bank
Fairie Queen
Foulerton Reef
Mischief Reef
Second Thomas Shoal
Sabina Shoal
Alicia Annie Shoal
First Thomas Shoal
Investigator NE Shoal
Bombay Shoal
Half Moon Shoal
Royal Captain Shoal

Figure 4.2

REPRODUCTION OF CNOOC MAP ENTITLED:

"LOCATIONS FOR PART OF OPEN BLOCKS IN WATERS UNDER JURISDICTION OF THE PEOPLE'S REPUBLIC OF CHINA AVAILABLE FOR FOREIGN COOPERATION IN THE YEAR OF 2012"

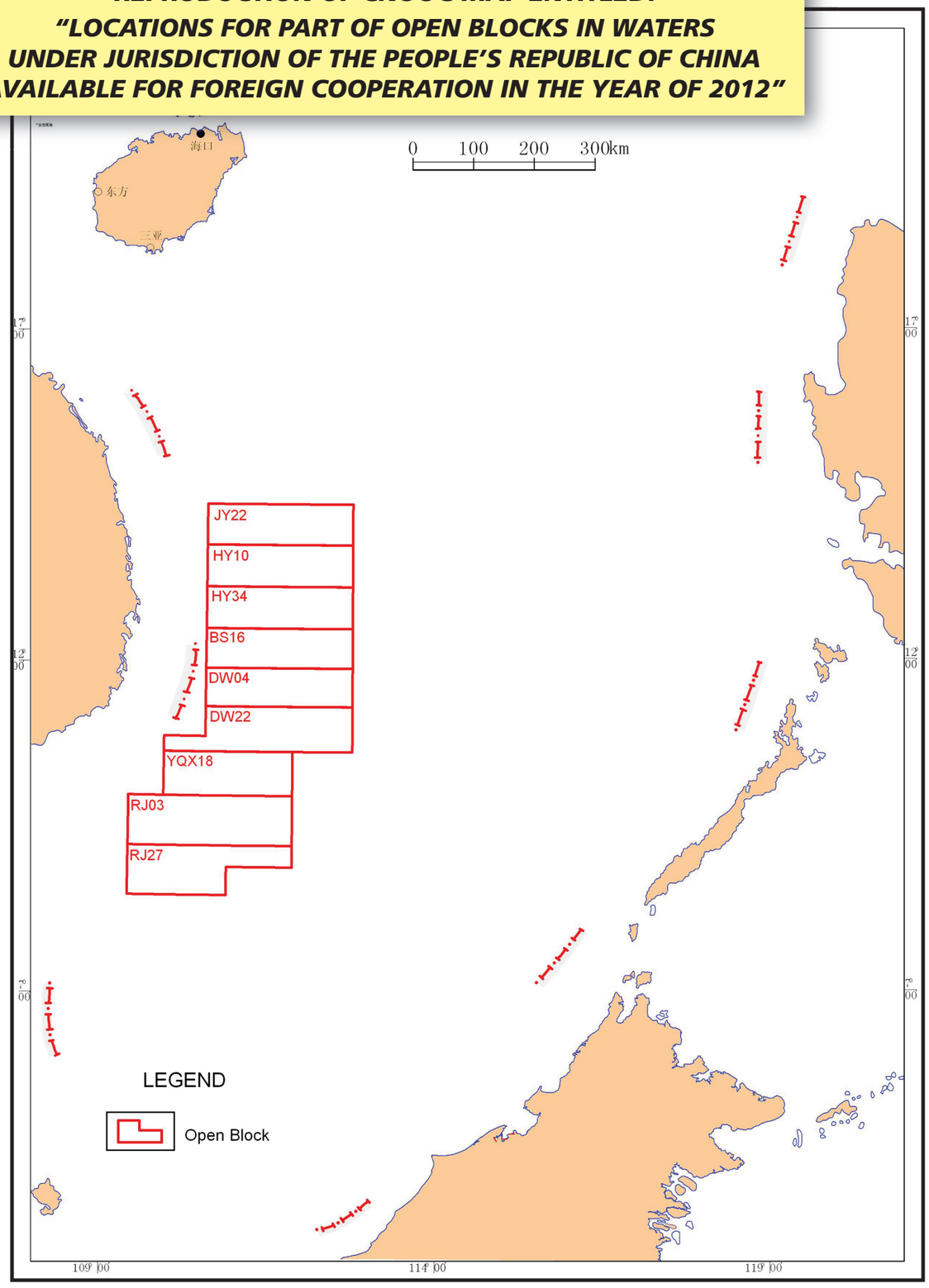


Figure 4.3

“MAP OF THE PEOPLE’S REPUBLIC OF CHINA”

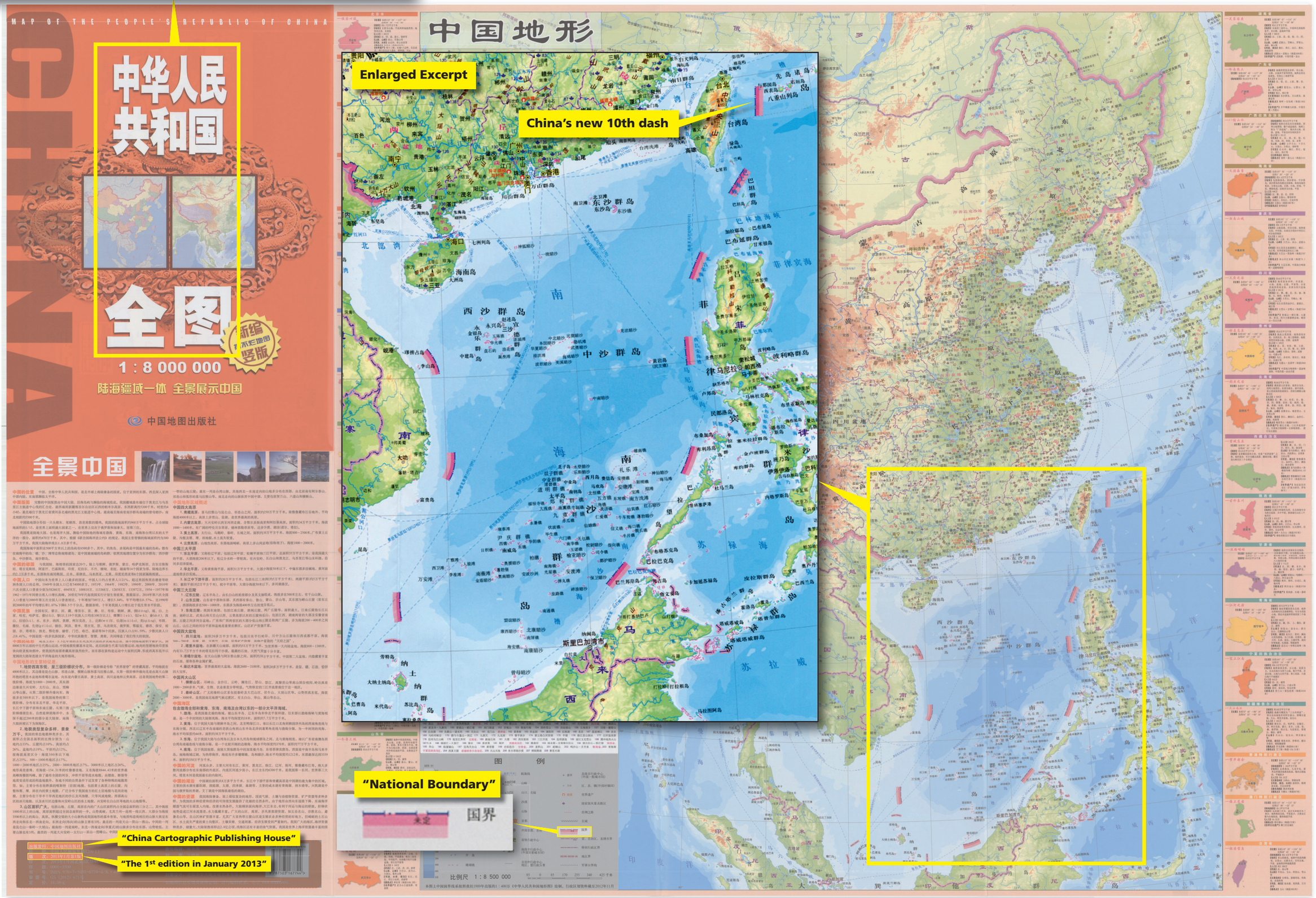
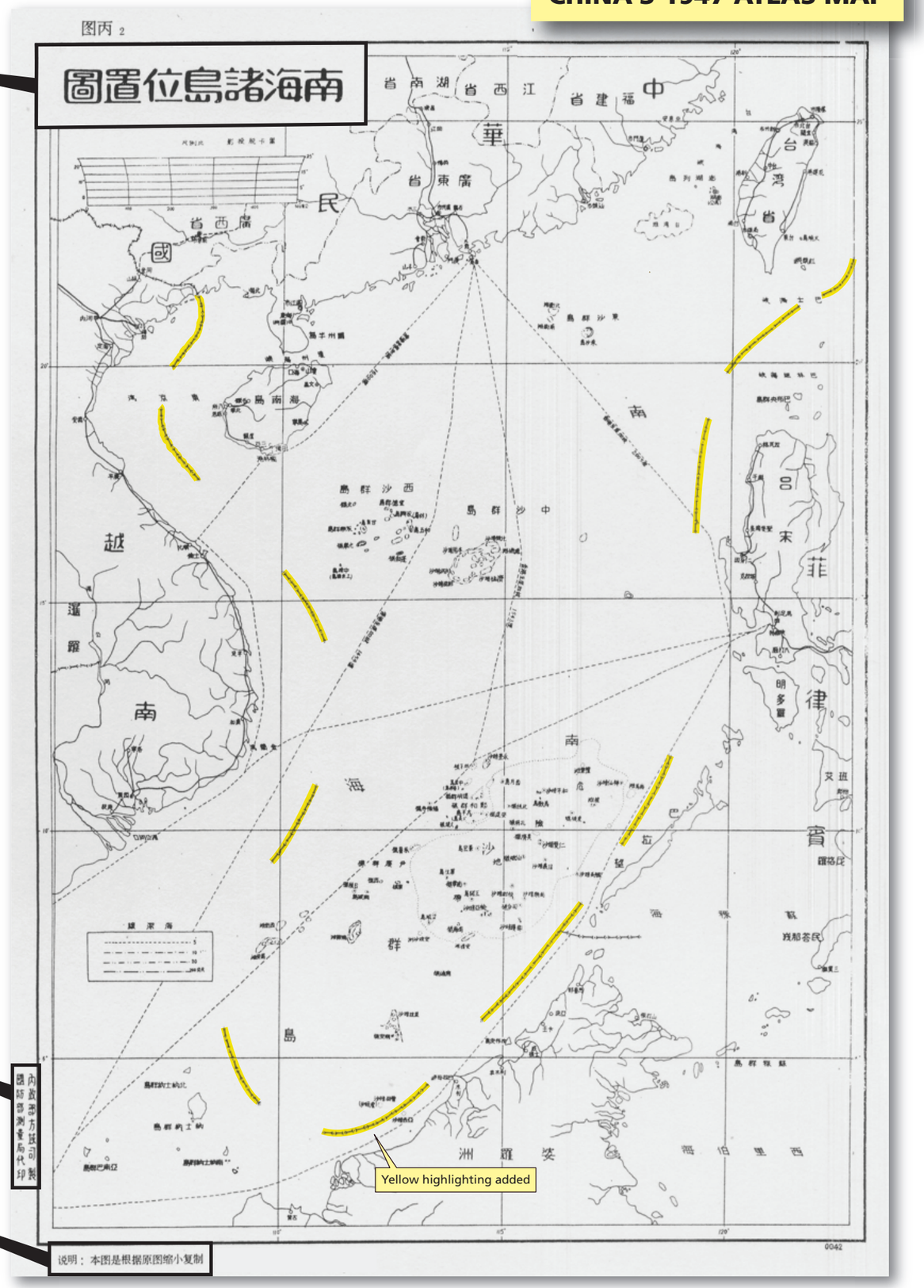


Figure 4.4

CHINA'S 1947 ATLAS MAP

"MAP SHOWING THE LOCATION OF THE VARIOUS ISLANDS IN THE SOUTH SEA"
(NANHAI ZHU DAO WEI ZHI TU)



"Prepared by the Boundary Department of the Ministry of Interior. Printed by the Survey Bureau of the Ministry of National Defense."

"This map is reproduced based on the original map with reduced size."

Figure 4.5

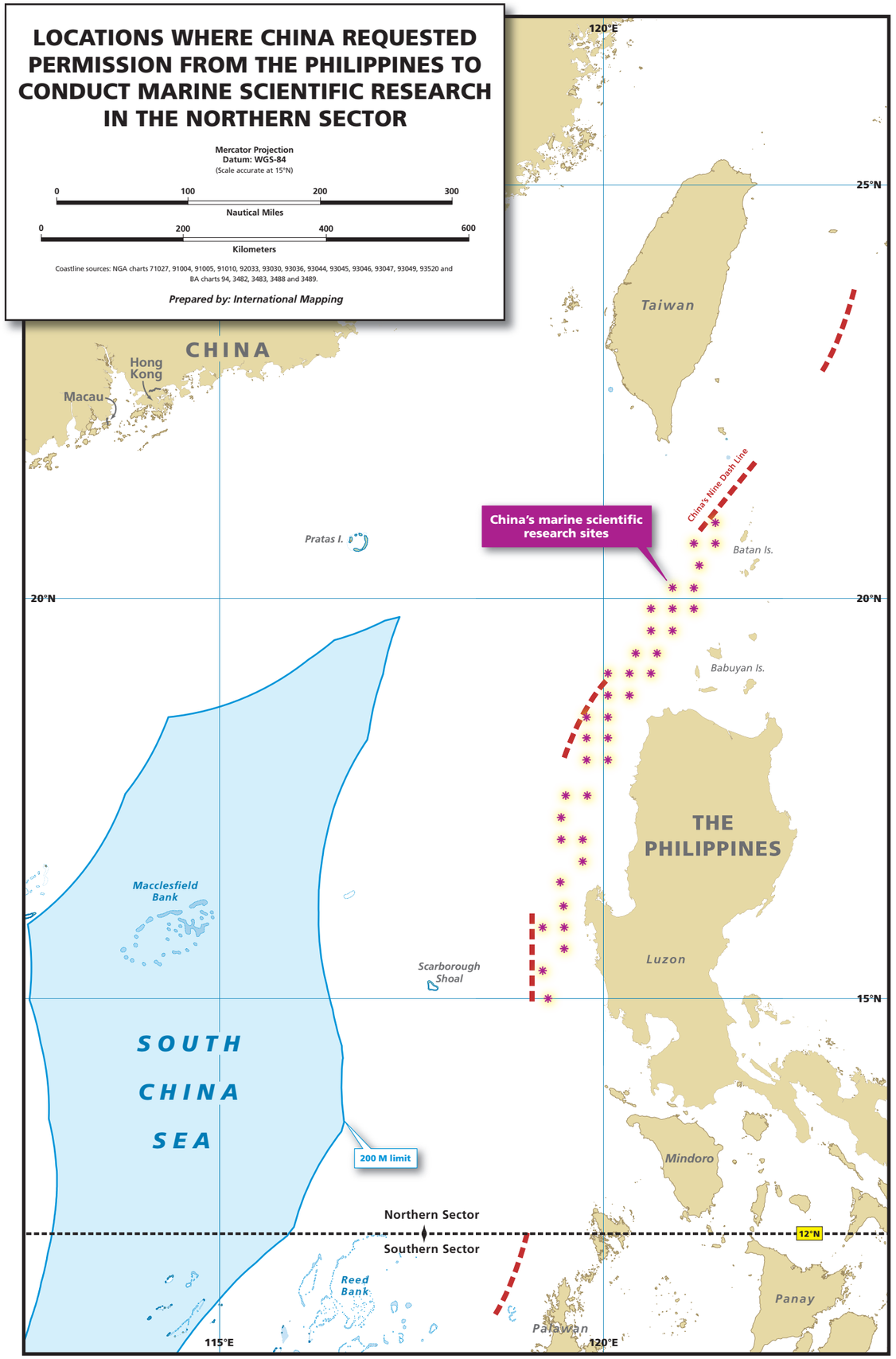

LOCATIONS WHERE CHINA REQUESTED PERMISSION FROM THE PHILIPPINES TO CONDUCT MARINE SCIENTIFIC RESEARCH IN THE NORTHERN SECTOR
Mercator Projection
Datum: WGS-84
(Scale accurate at 15°N)
0 100 200 300
Nautical Miles
0 200 400 600
Kilometers
Coastline sources: NGA charts 71027, 91004, 91005, 91010, 92033, 93030, 93036, 93044, 93045, 93046, 93047, 93049, 93520 and BA charts 94, 3482, 3483, 3488 and 3489.
Prepared by: International Mapping
120°E
25°N
20°N
15°N
12°N
115°E
120°E
CHINA
Hong Kong
Macau
Taiwan
China's Nine Dash Line
China's marine scientific research sites
Pratas I.
Batan Is.
Babuyan Is.
THE PHILIPPINES
Luzon
Mindoro
Panay
Palawan
Macclesfield Bank
Scarborough Shoal
SOUTH CHINA SEA
200 M limit
Northern Sector
Southern Sector
Reed Bank

Figure 4.6

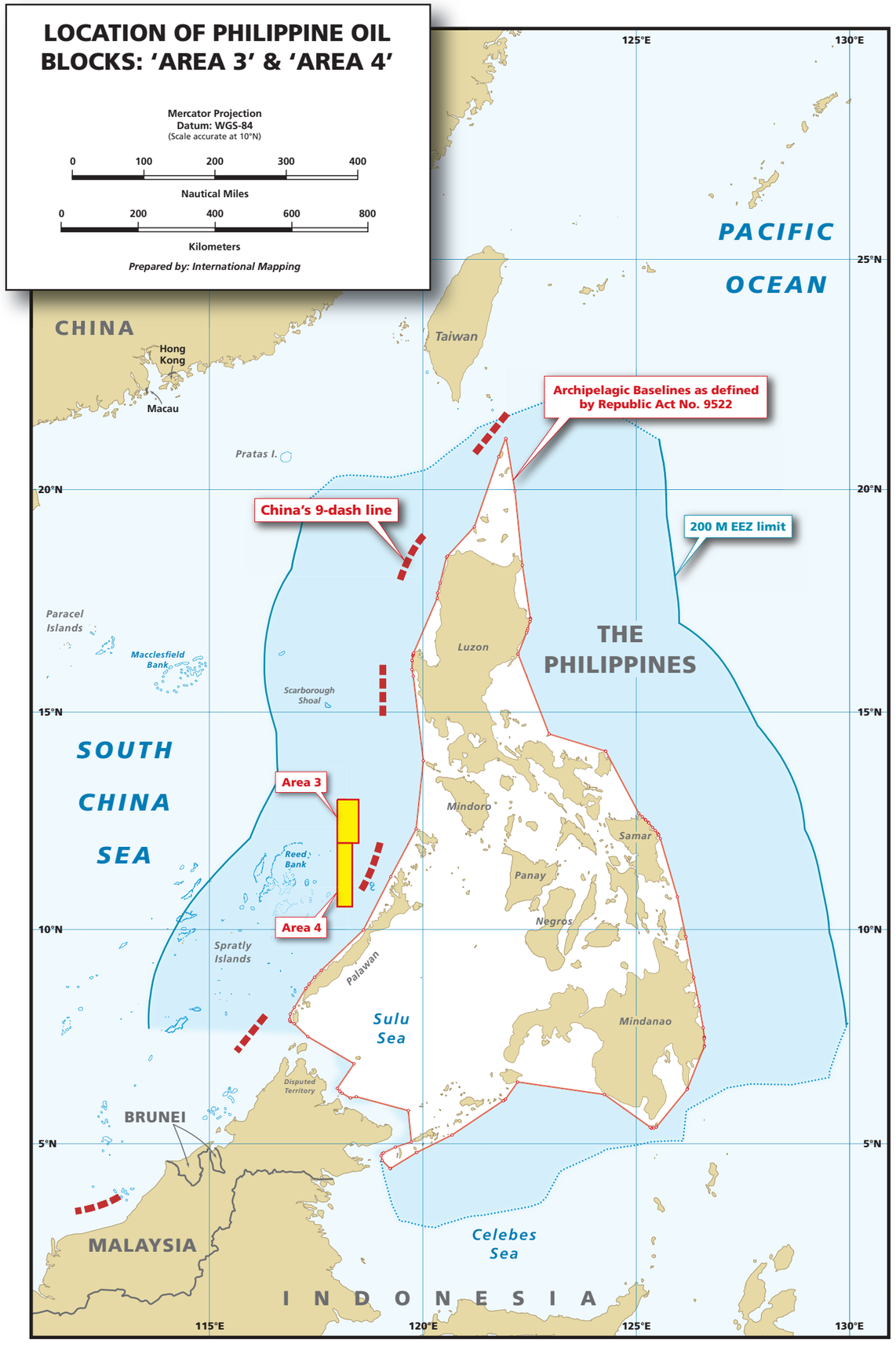

LOCATION OF PHILIPPINE OIL BLOCKS: 'AREA 3' & 'AREA 4'
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
125°E
130°E
25°N
20°N
15°N
10°N
5°N
115°E
120°E
PACIFIC
OCEAN
CHINA
Hong Kong
Macau
Taiwan
Pratas I.
Archipelagic Baselines as defined by Republic Act No. 9522
China's 9-dash line
200 M EEZ limit
Paracel Islands
Macclesfield Bank
Scarborough Shoal
Luzon
THE PHILIPPINES
SOUTH CHINA SEA
Area 3
Area 4
Reed Bank
Mindoro
Samar
Panay
Negros
Spratly Islands
Palawan
Sulu Sea
Mindanao
Disputed Territory
BRUNEI
MALAYSIA
Celebes Sea
I N D O N E S I A

Figure 4.7

Rock A

Rock B

Rock C

Rock D

Rock F

Figure 5.1

QS-32 LOCATED ON COLOMBIA'S *QUITASUEÑO CAY*

Figure 5.2

UNITED KINGDOM'S *ROCKALL*

Figure 5.3

JAPAN'S *OKI-NO-TORI SHIMA*
Oki-no-Tori Shima
(encased in concrete)

Figure 5.4

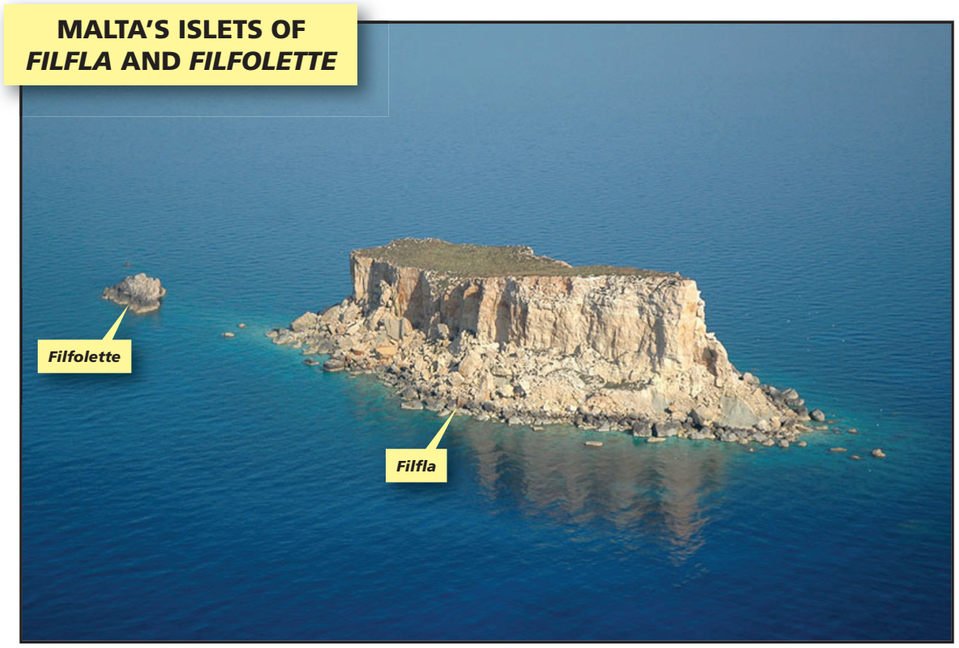
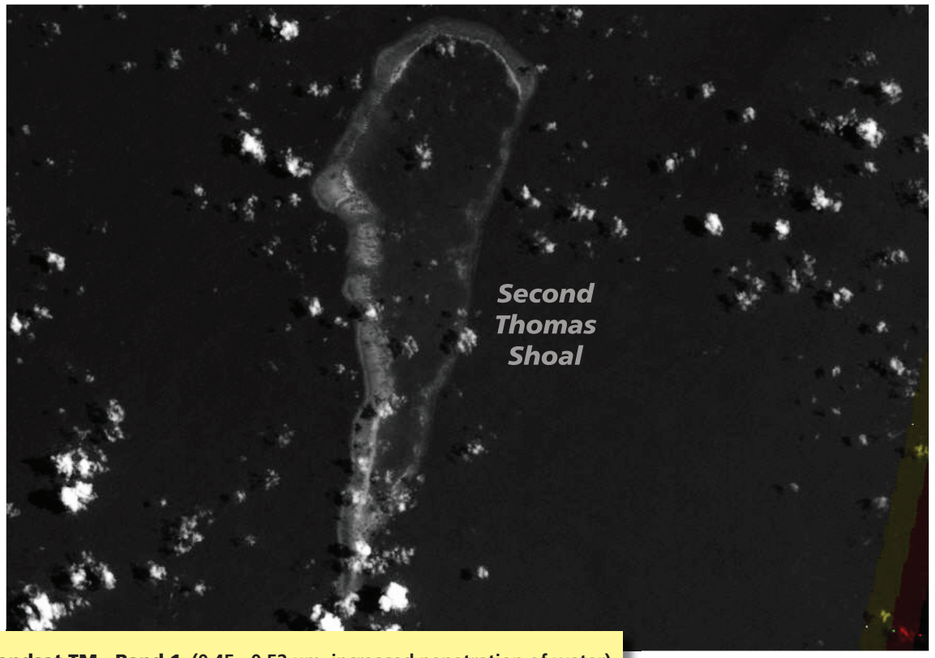


Figure 5.5

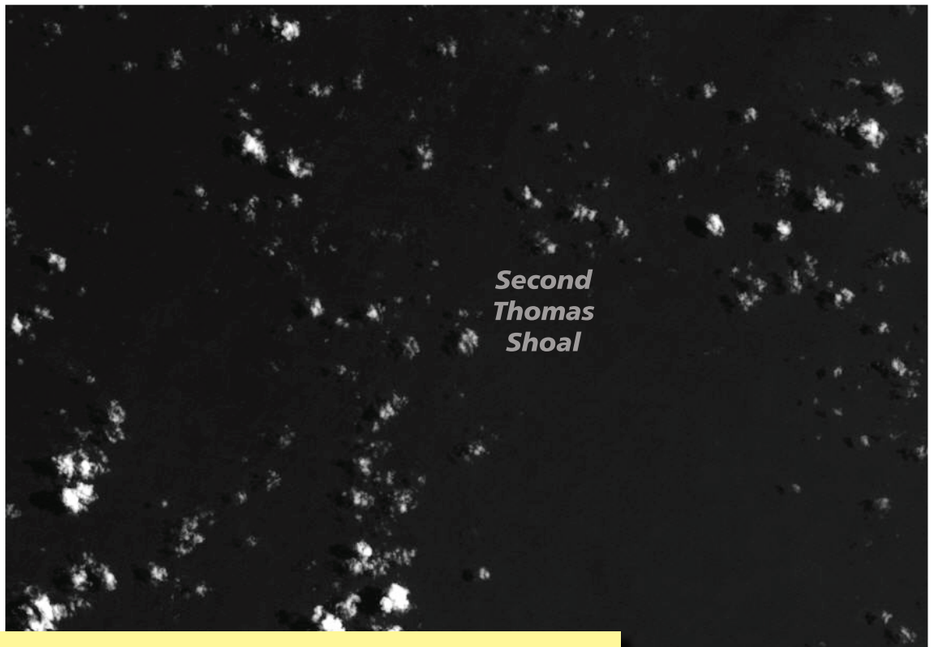
SECOND THOMAS SHOAL

(Landsat TM image – 26 April 1994)

Prepared by: International Mapping

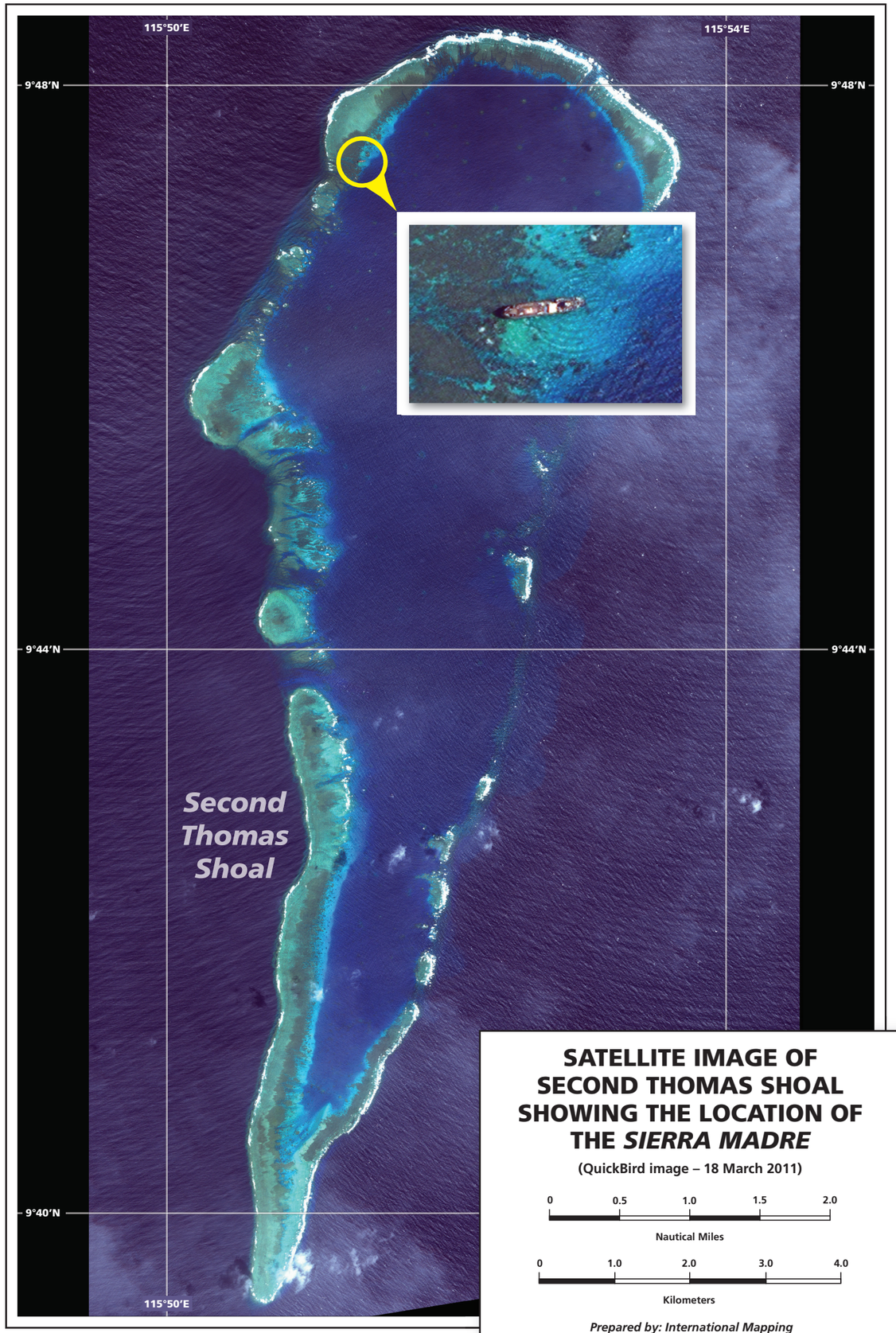


Landsat TM - Band 1 (0.45 - 0.52 um, increased penetration of water)



Landsat TM - Band 4 (0.76 - 0.90 um, increased absorbtion by water)

Figure 5.6



SATELLITE IMAGE OF SECOND THOMAS SHOAL SHOWING THE LOCATION OF THE *SIERRA MADRE*

(QuickBird image – 18 March 2011)

0 0.5 1.0 1.5 2.0

Nautical Miles

0 1.0 2.0 3.0 4.0

Kilometers

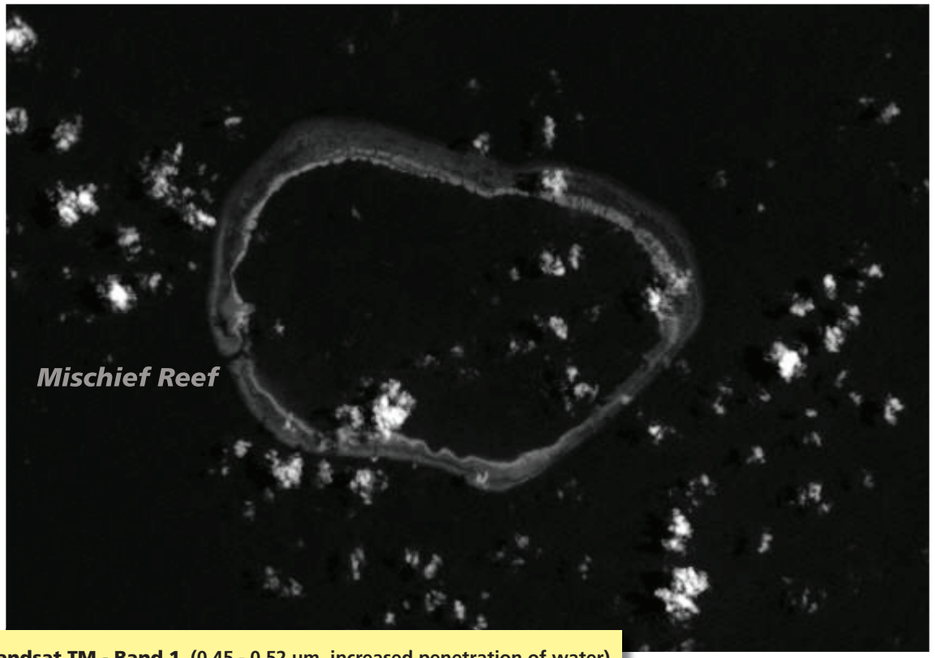
Prepared by: International Mapping

Figure 5.7

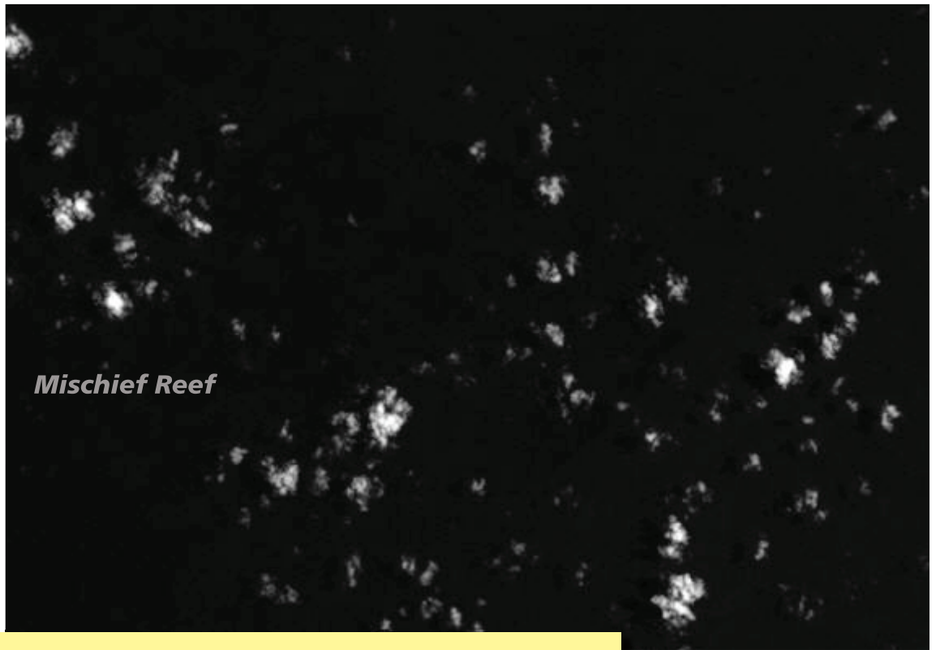
MISCHIEF REEF

(Landsat TM image – 26 April 1994)

Prepared by: International Mapping



Landsat TM - Band 1 (0.45 - 0.52 um, increased penetration of water)



Landsat TM - Band 4 (0.76 - 0.90 um, increased absorbtion by water)

Figure 5.8

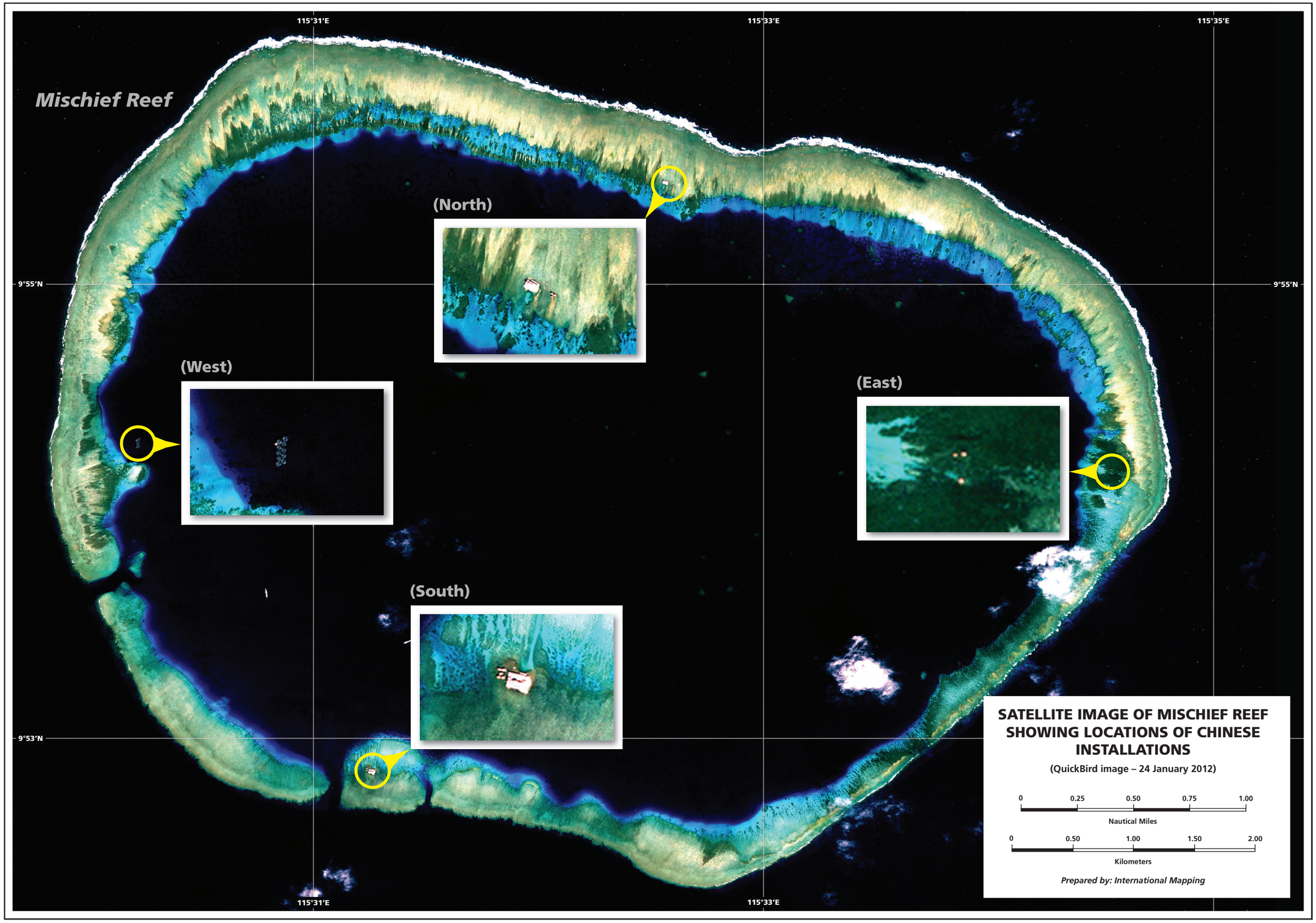
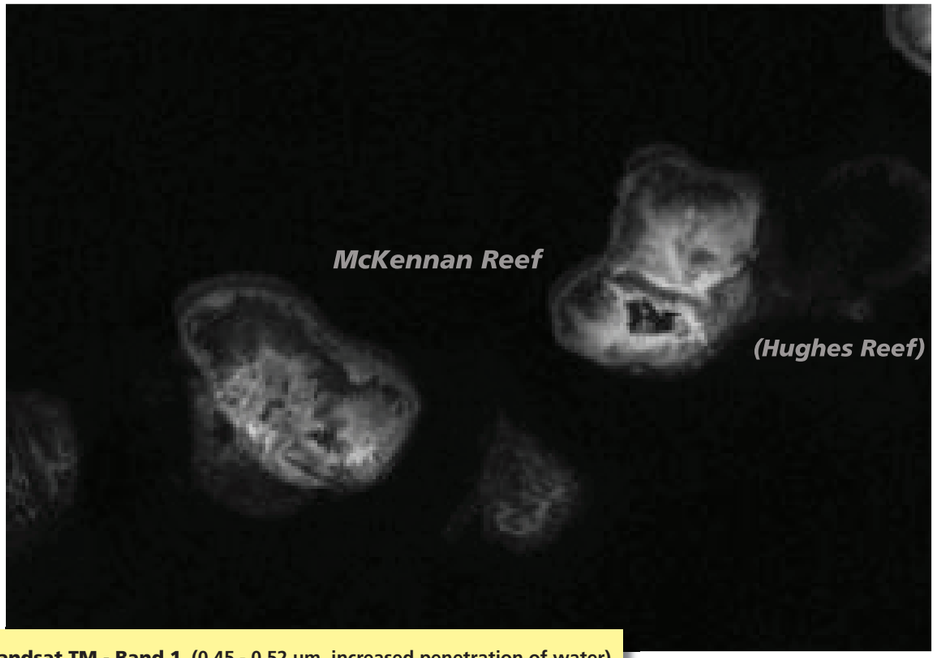

Mischief Reef
115°31'E
115°33'E
115°35'E
9°55'N
9°53'N
(North)
(West)
(East)
(South)
SATELLITE IMAGE OF MISCHIEF REEF SHOWING LOCATIONS OF CHINESE INSTALLATIONS
(QuickBird image – 24 January 2012)
0
0.25
0.50
0.75
1.00
Nautical Miles
0
0.50
1.00
1.50
2.00
Kilometers
Prepared by: International Mapping

Figure 5.9

MCKENNAN (HUGHES) REEF

(Landsat TM image – 26 April 1994)

Prepared by: International Mapping



Landsat TM - Band 1 (0.45 - 0.52 um, increased penetration of water)

Landsat TM - Band 4 (0.76 - 0.90 um, increased absorbtion by water)

Figure 5.10

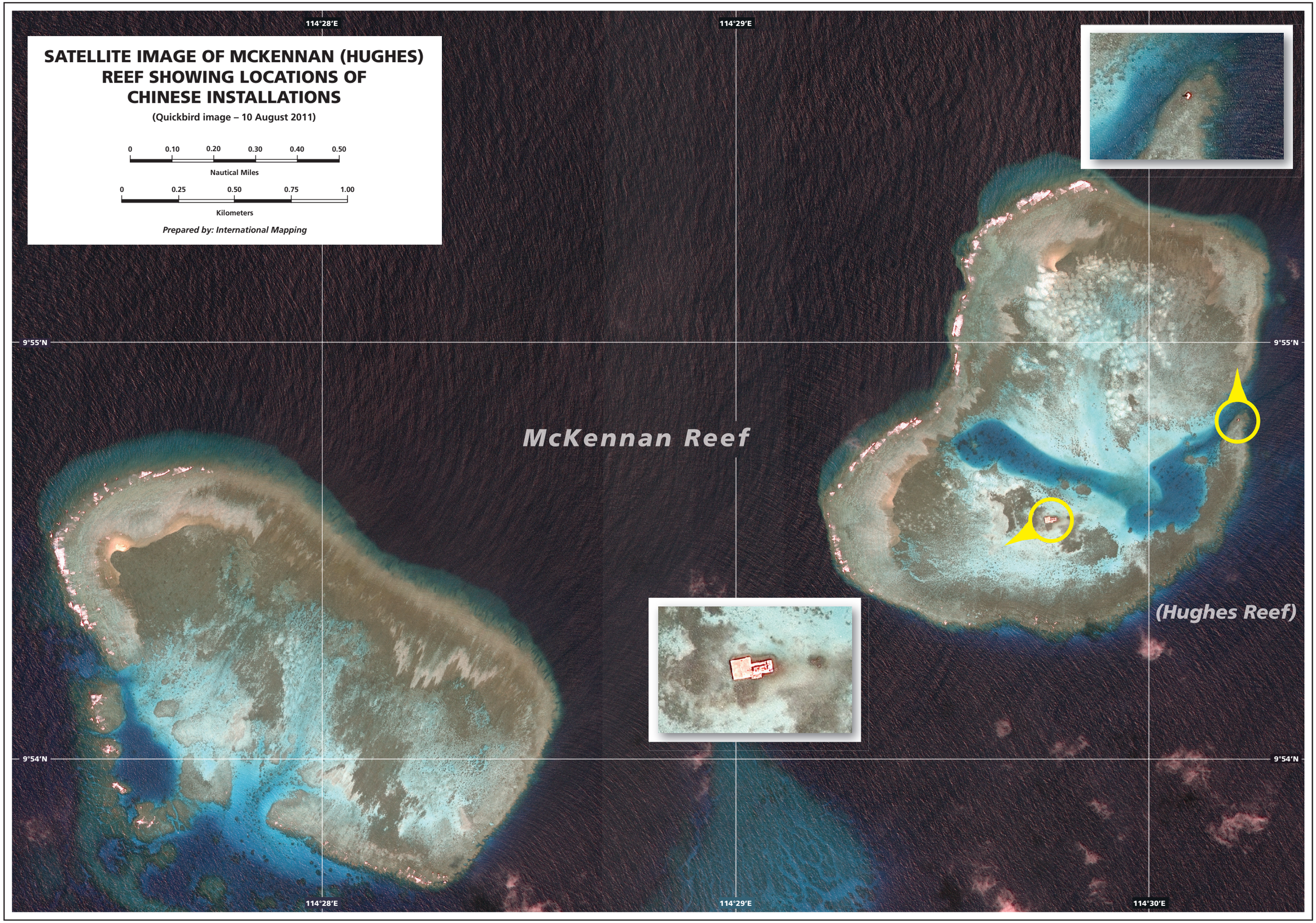
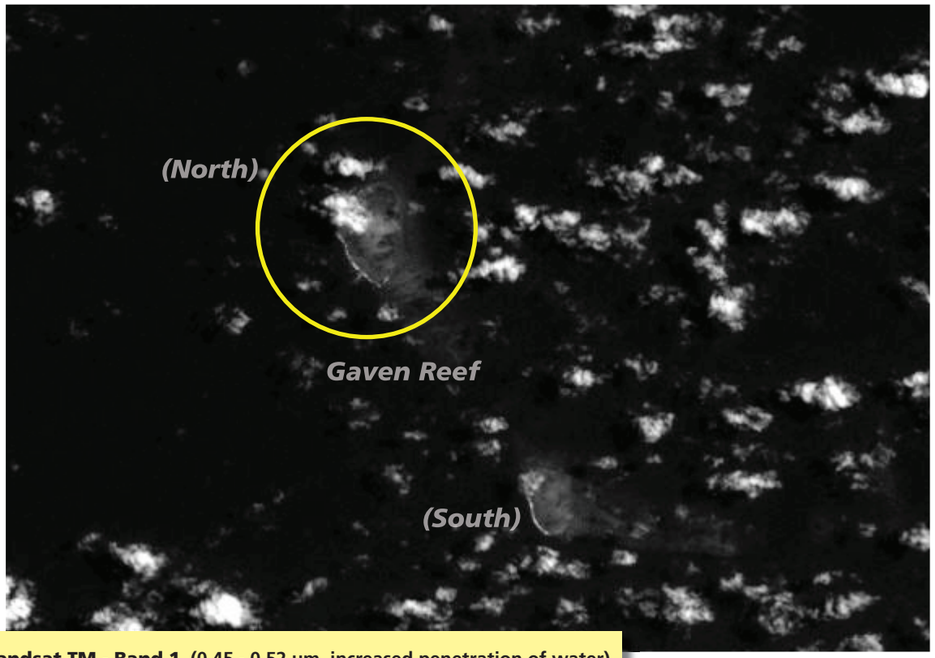

SATELLITE IMAGE OF MCKENNAN (HUGHES) REEF SHOWING LOCATIONS OF CHINESE INSTALLATIONS
(Quickbird image – 10 August 2011)
0 0.10 0.20 0.30 0.40 0.50
Nautical Miles
0 0.25 0.50 0.75 1.00
Kilometers
Prepared by: International Mapping
114°28'E
114°29'E
114°30'E
9°55'N
9°54'N
McKennan Reef
(Hughes Reef)

Figure 5.11

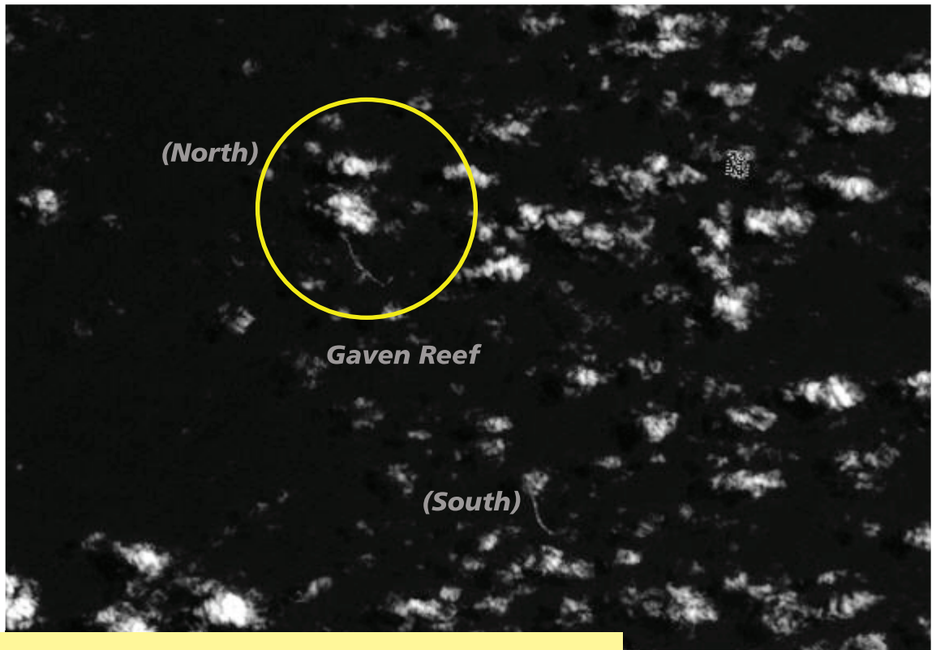
GAVEN REEF

(Landsat TM image – 22 July 1994)

Prepared by: International Mapping



Landsat TM - Band 1 (0.45 - 0.52 um, increased penetration of water)



Landsat TM - Band 4 (0.76 - 0.90 um, increased absorbtion by water)

Figure 5.12

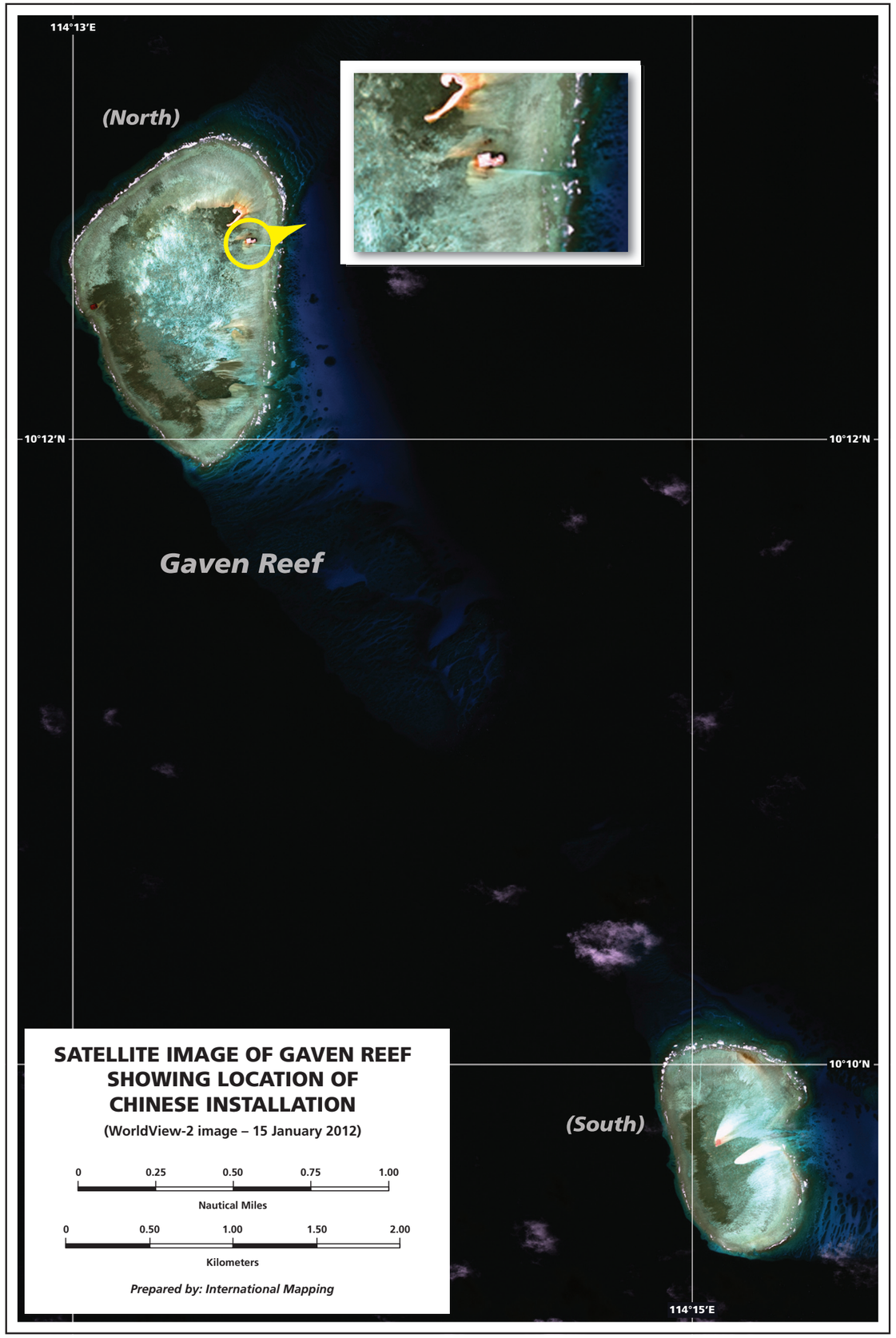
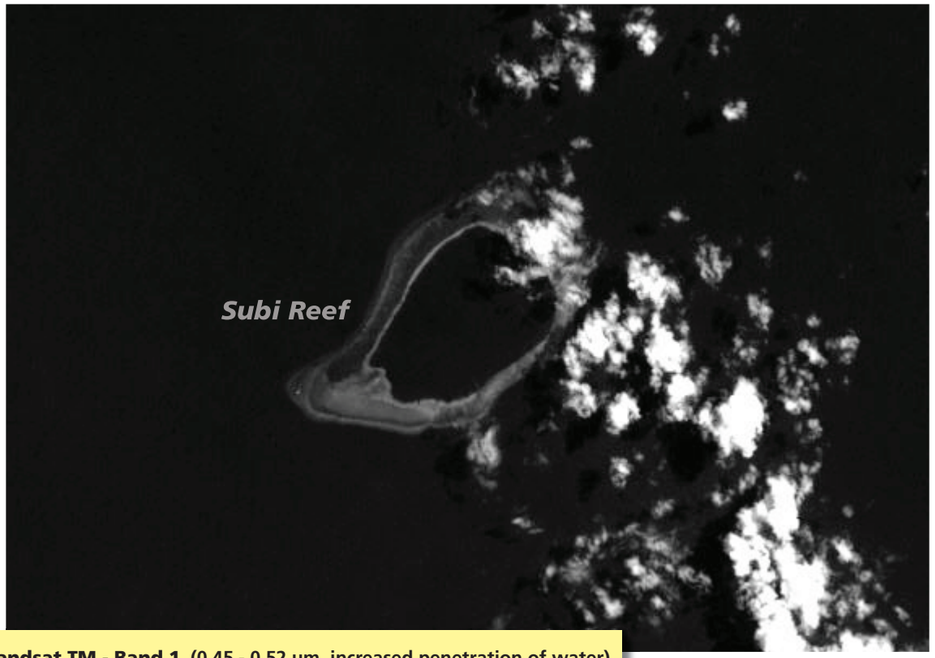

114°13'E
(North)
10°12'N
10°12'N
Gaven Reef
10°10'N
(South)
114°15'E
SATELLITE IMAGE OF GAVEN REEF
SHOWING LOCATION OF
CHINESE INSTALLATION
(WorldView-2 image – 15 January 2012)
0
0.25
0.50
0.75
1.00
Nautical Miles
0
0.50
1.00
1.50
2.00
Kilometers
Prepared by: International Mapping

Figure 5.13

SUBI REEF

(Landsat TM image – 9 June 1993)

Prepared by: International Mapping



Landsat TM - Band 1 (0.45 - 0.52 um, increased penetration of water)

Landsat TM - Band 4 (0.76 - 0.90 um, increased absorbtion by water)

Figure 5.14

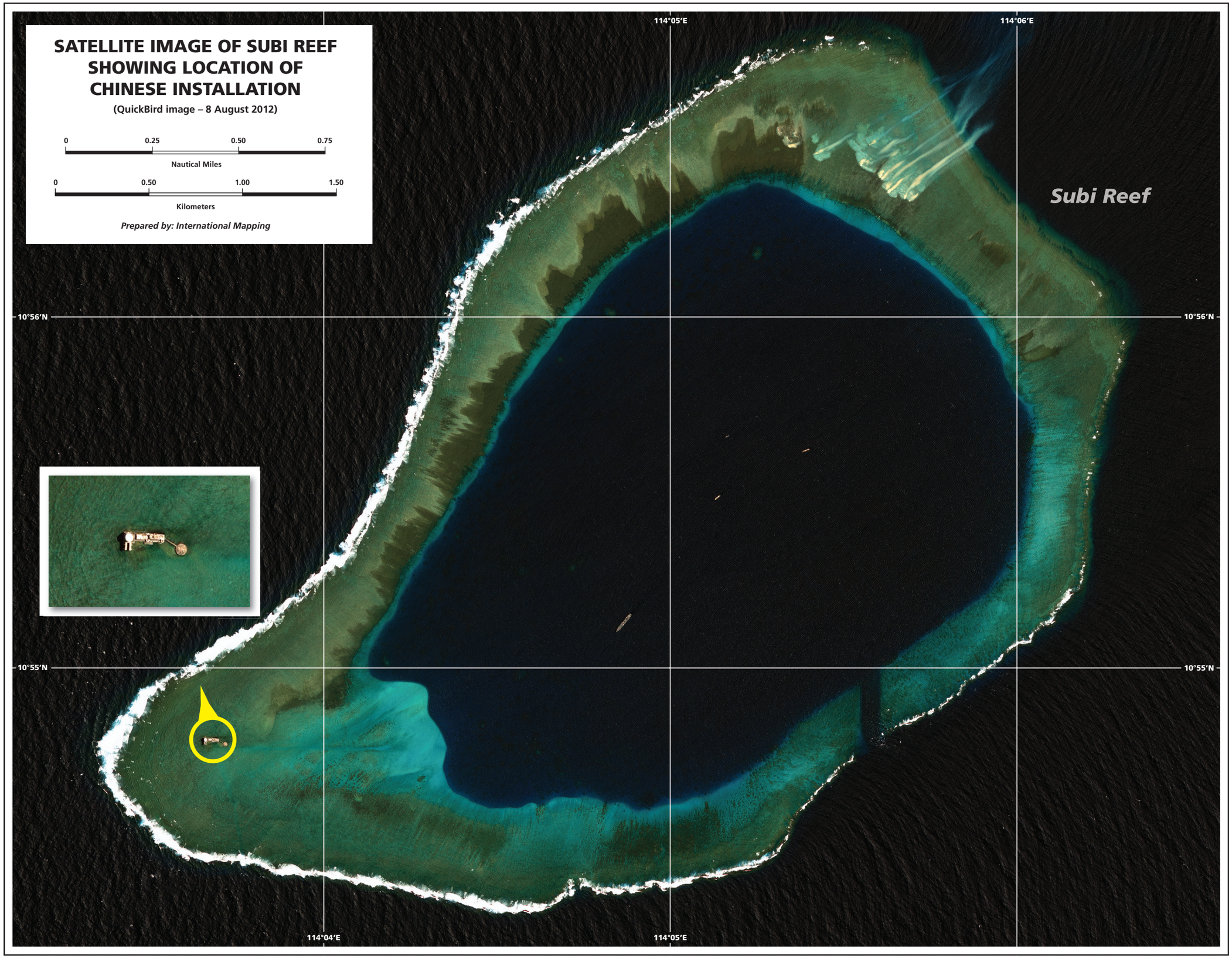

SATELLITE IMAGE OF SUBI REEF
SHOWING LOCATION OF
CHINESE INSTALLATION
(QuickBird image – 8 August 2012)
0
0.25
0.50
0.75
Nautical Miles
0
0.50
1.00
1.50
Kilometers
Prepared by: International Mapping
114°05'E
114°06'E
Subi Reef
10°56'N
10°56'N
10°55'N
10°55'N
114°04'E
114°05'E

Figure 5.15

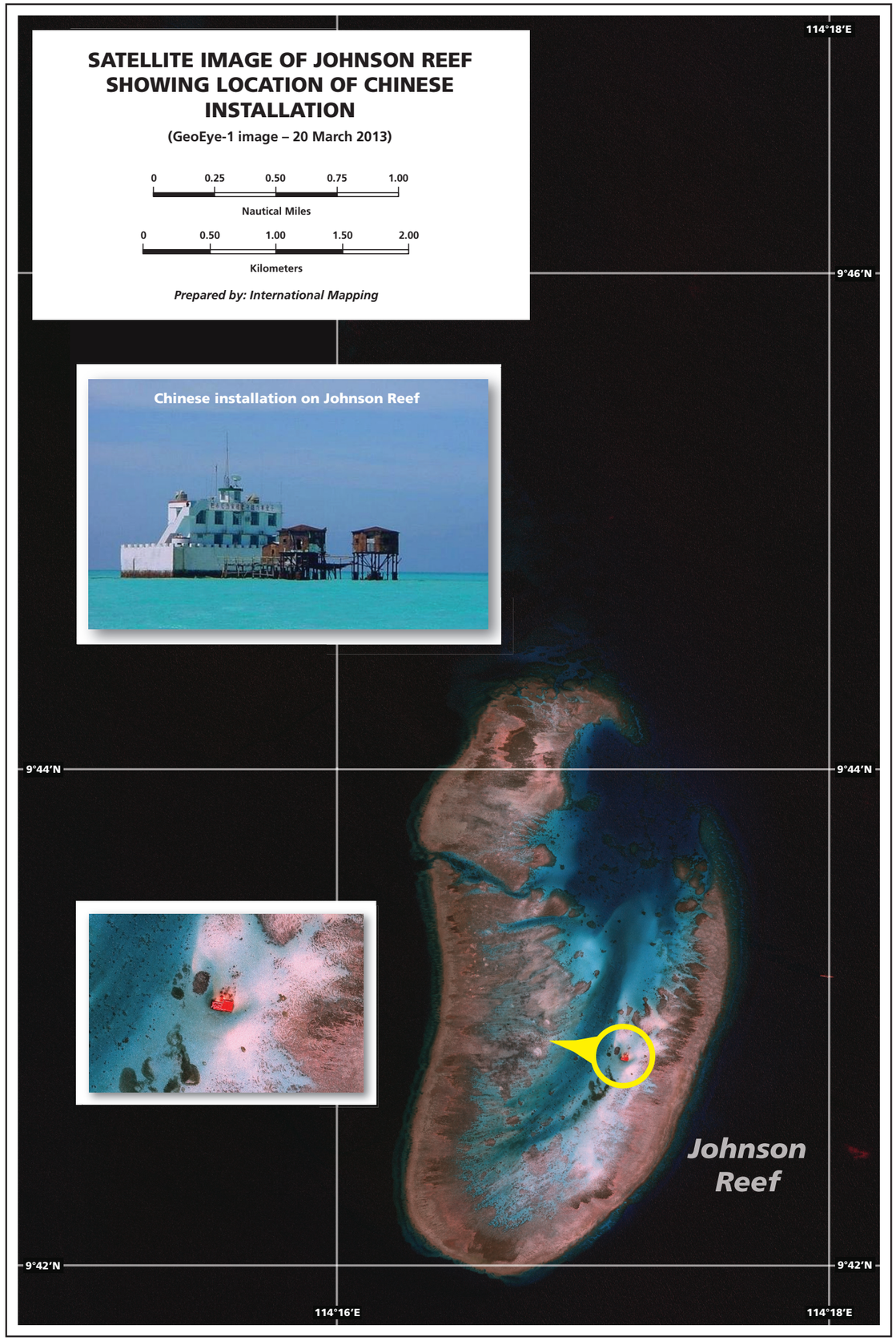

SATELLITE IMAGE OF JOHNSON REEF SHOWING LOCATION OF CHINESE INSTALLATION
(GeoEye-1 image – 20 March 2013)
0 0.25 0.50 0.75 1.00
Nautical Miles
0 0.50 1.00 1.50 2.00
Kilometers
Prepared by: International Mapping
Chinese installation on Johnson Reef
114°18'E
9°46'N
9°44'N
9°44'N
9°42'N
9°42'N
114°16'E
114°18'E
Johnson Reef

Figure 5.16

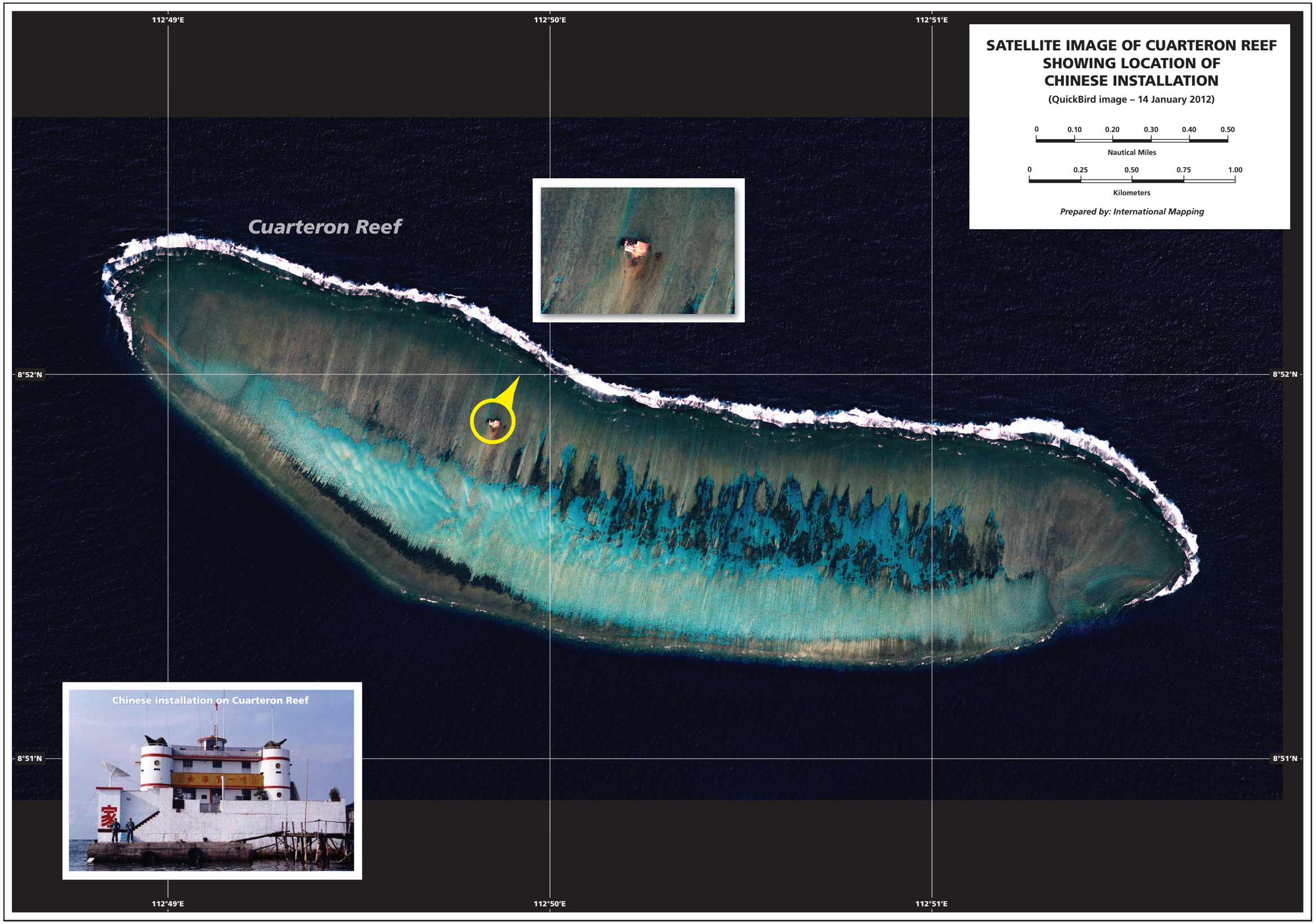

SATELLITE IMAGE OF CUARTERON REEF
SHOWING LOCATION OF
CHINESE INSTALLATION
(QuickBird image – 14 January 2012)
0 0.10 0.20 0.30 0.40 0.50
Nautical Miles
0 0.25 0.50 0.75 1.00
Kilometers
Prepared by: International Mapping
Cuarteron Reef
Chinese installation on Cuarteron Reef
112°49'E
112°50'E
112°51'E
8°52'N
8°51'N

Figure 5.17

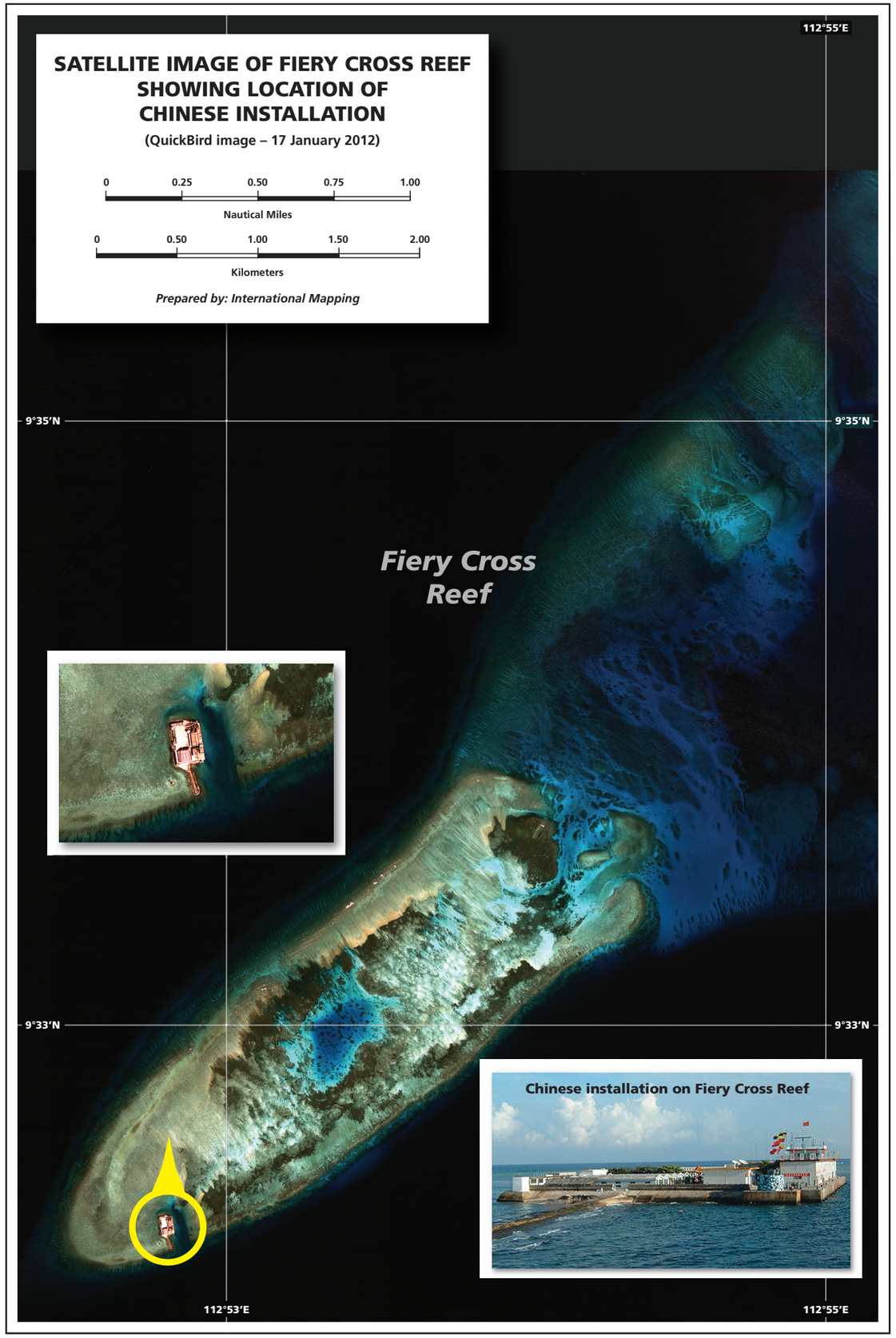

SATELLITE IMAGE OF FIERY CROSS REEF
SHOWING LOCATION OF
CHINESE INSTALLATION
(QuickBird image – 17 January 2012)
0
0.25
0.50
0.75
1.00
Nautical Miles
0
0.50
1.00
1.50
2.00
Kilometers
Prepared by: International Mapping
112°55'E
9°35'N
9°35'N
Fiery Cross
Reef
9°33'N
9°33'N
Chinese installation on Fiery Cross Reef
112°53'E
112°55'E

Figure 5.18

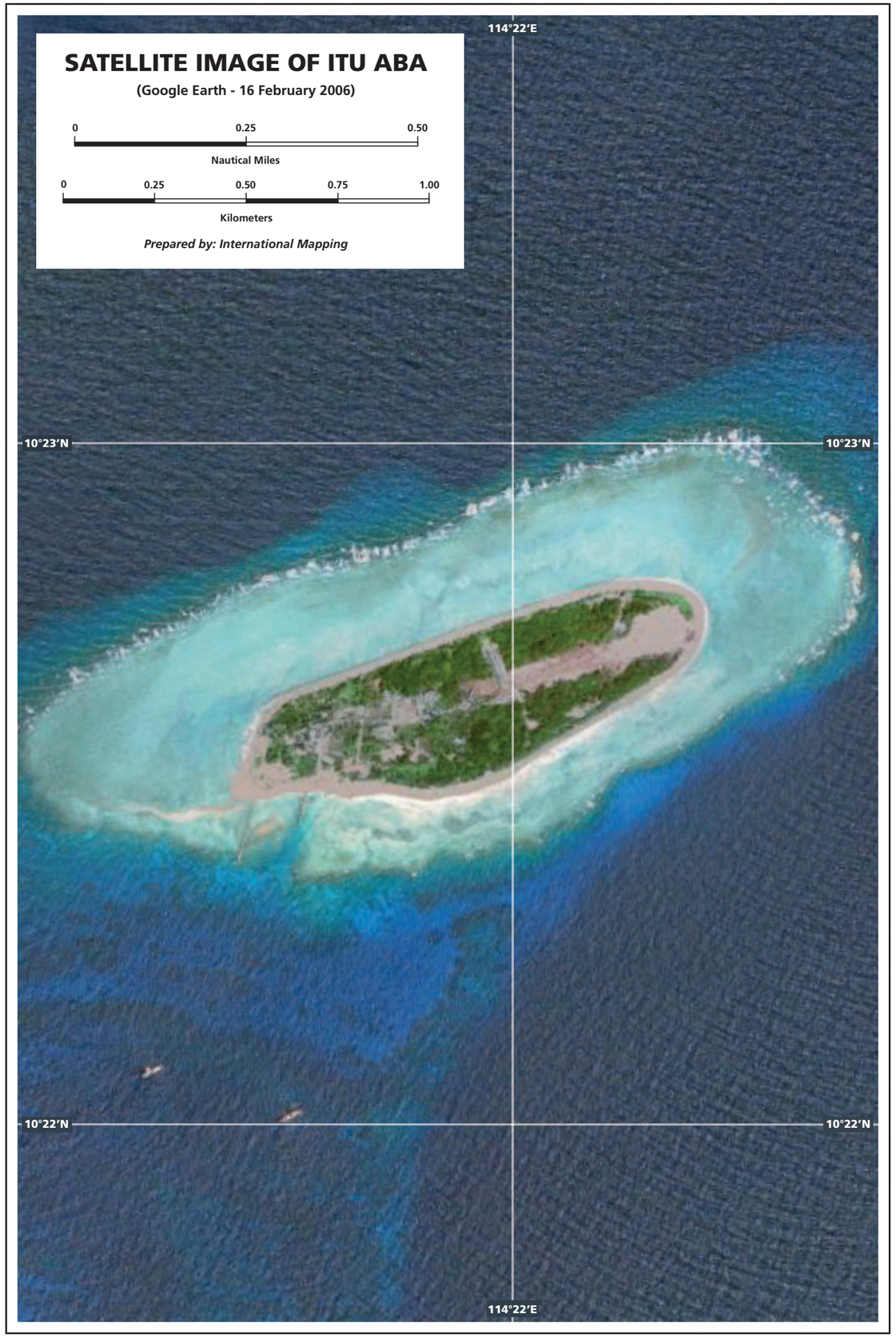

SATELLITE IMAGE OF ITU ABA
(Google Earth - 16 February 2006)
0
0.25
0.50
Nautical Miles
0
0.25
0.50
0.75
1.00
Kilometers
Prepared by: International Mapping
114°22'E
10°23'N
10°23'N
10°22'N
10°22'N
114°22'E

Figure 5.19

SATELLITE IMAGE OF THITU
(QuickBird image – 24 August 2008)
0
0.25
0.50
Nautical Miles
0
0.25
0.50
0.75
1.00
Kilometers
Prepared by: International Mapping
114°17'E
11°04'N
11°03'N
11°03'N
114°17'E

Figure 5.20

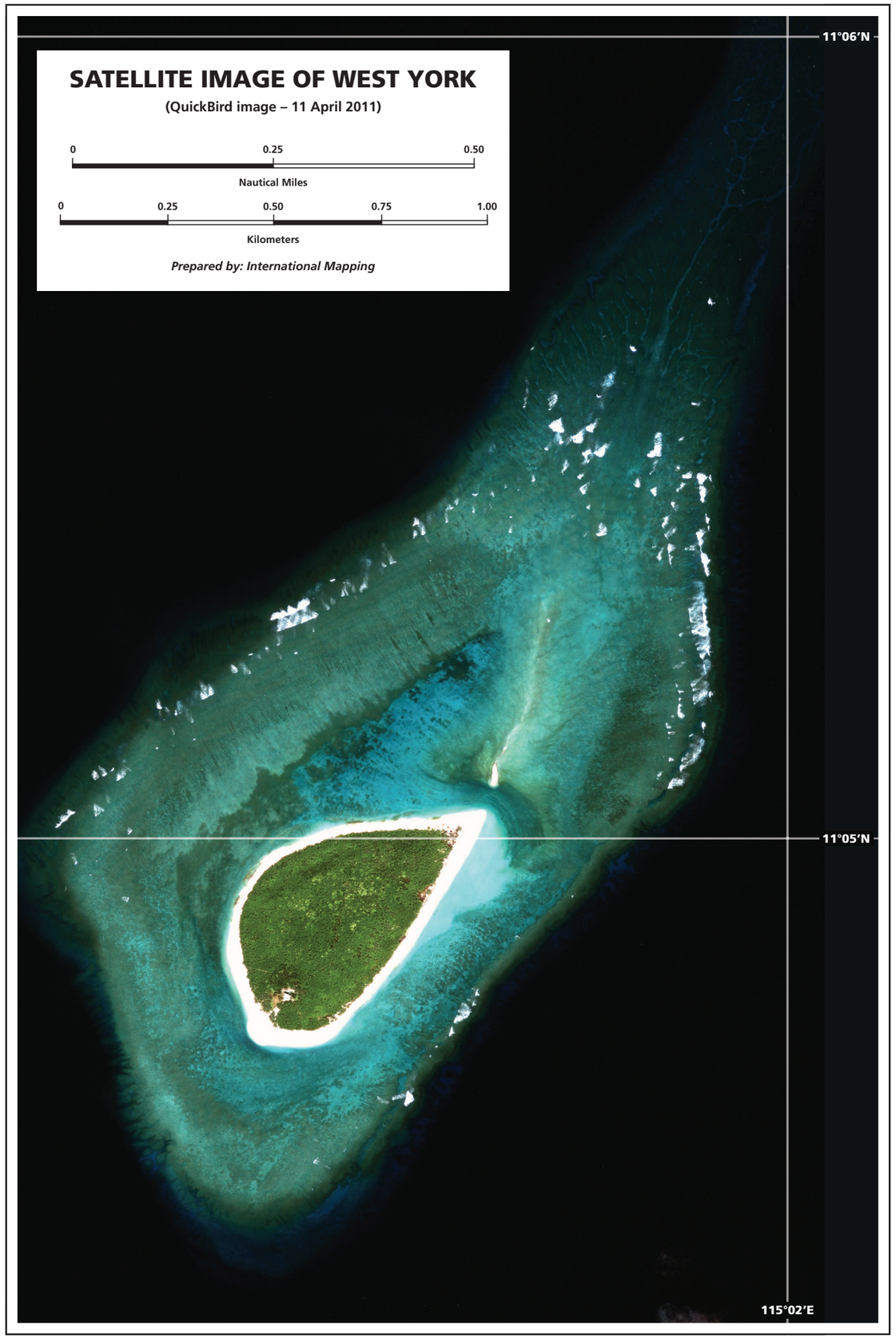

SATELLITE IMAGE OF WEST YORK
(QuickBird image – 11 April 2011)
0
0.25
0.50
Nautical Miles
0
0.25
0.50
0.75
1.00
Kilometers
Prepared by: International Mapping
11°06'N
11°05'N
115°02'E

Figure 5.21

UKRAINE'S *SERPENTS' ISLAND*

Figure 5.22

COLOMBIA'S *SERRANA CAY*

Figure 5.23

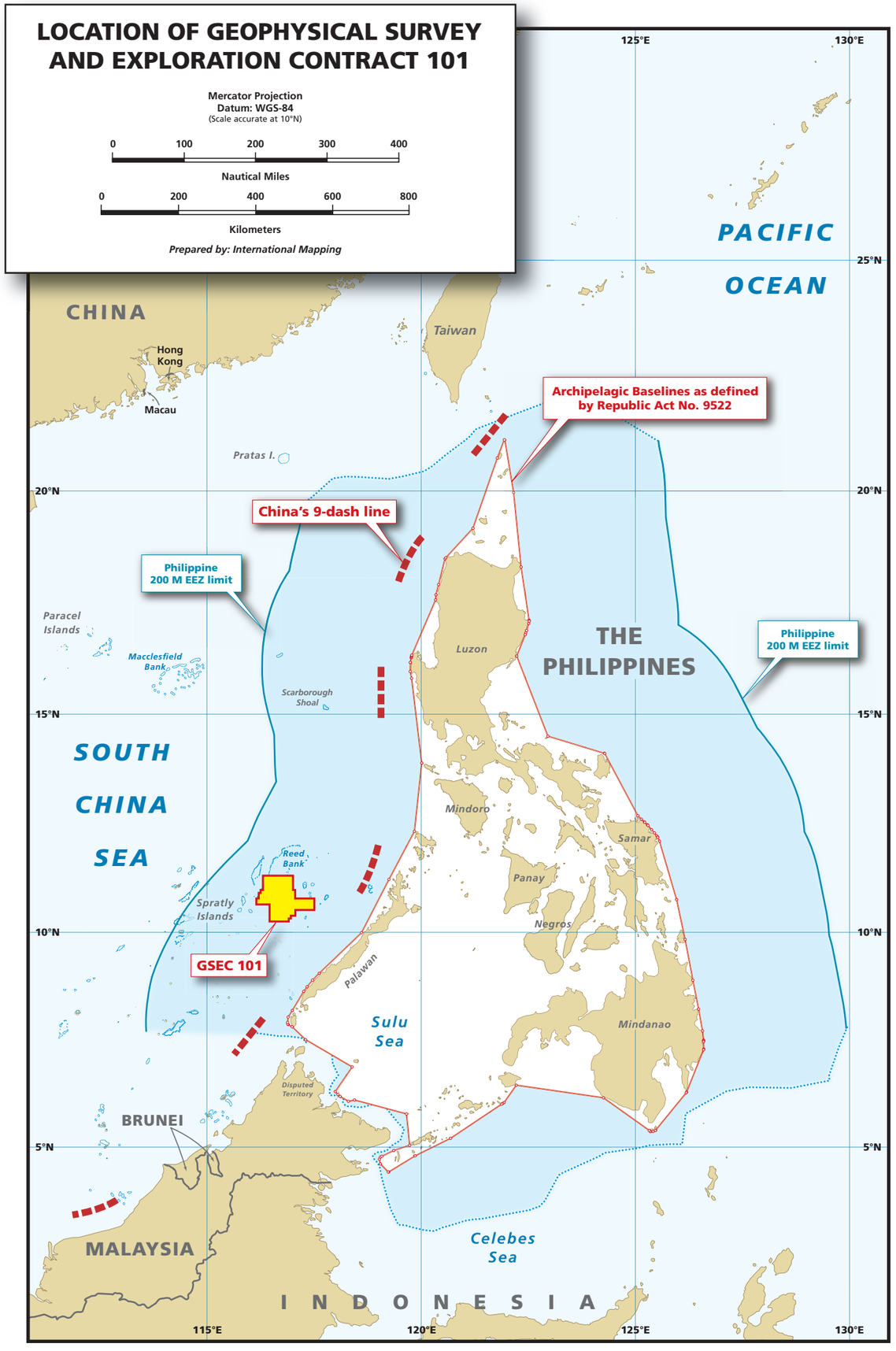

LOCATION OF GEOPHYSICAL SURVEY AND EXPLORATION CONTRACT 101
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
125°E
130°E
25°N
20°N
15°N
10°N
5°N
115°E
120°E
PACIFIC
OCEAN
CHINA
Hong Kong
Macau
Taiwan
Pratas I.
Archipelagic Baselines as defined by Republic Act No. 9522
China's 9-dash line
Philippine 200 M EEZ limit
Paracel Islands
Macclesfield Bank
Scarborough Shoal
Luzon
THE PHILIPPINES
Philippine 200 M EEZ limit
SOUTH CHINA SEA
Mindoro
Samar
Reed Bank
Panay
Spratly Islands
Negros
GSEC 101
Palawan
Sulu Sea
Mindanao
Disputed Territory
BRUNEI
MALAYSIA
Celebes Sea
I N D O N E S I A

Figure 6.1

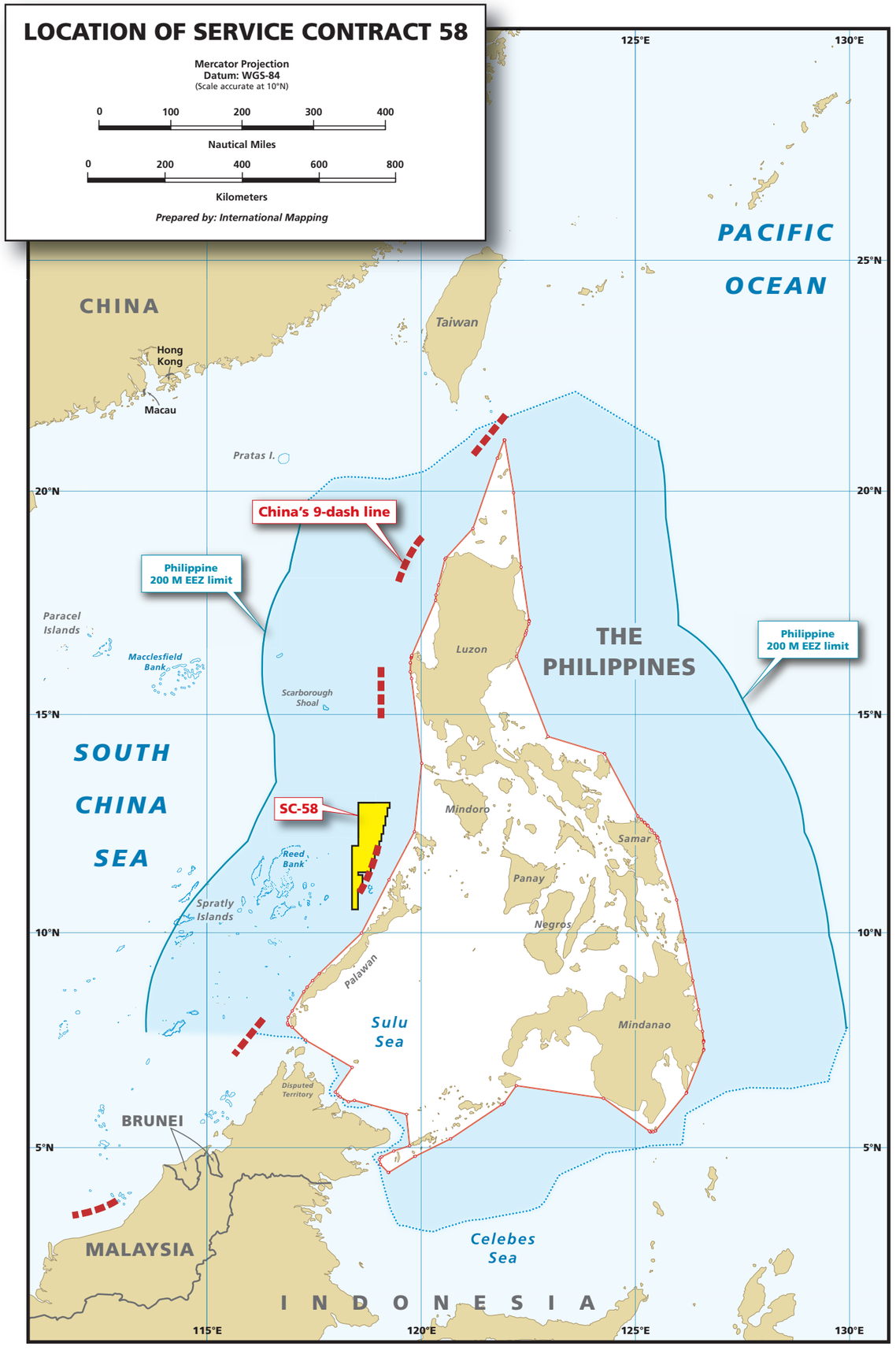

LOCATION OF SERVICE CONTRACT 58
Mercator Projection
Datum: WGS-84
(Scale accurate at 10°N)
0 100 200 300 400
Nautical Miles
0 200 400 600 800
Kilometers
Prepared by: International Mapping
PACIFIC
OCEAN
CHINA
Taiwan
Hong Kong
Macau
Pratas I.
China's 9-dash line
Philippine 200 M EEZ limit
Paracel Islands
Macclesfield Bank
Scarborough Shoal
Luzon
THE PHILIPPINES
Philippine 200 M EEZ limit
SOUTH CHINA SEA
SC-58
Mindoro
Samar
Reed Bank
Panay
Spratly Islands
Negros
Palawan
Sulu Sea
Mindanao
Disputed Territory
BRUNEI
MALAYSIA
Celebes Sea
I N D O N E S I A
125°E
130°E
25°N
20°N
15°N
10°N
5°N
115°E
120°E

Figure 6.2

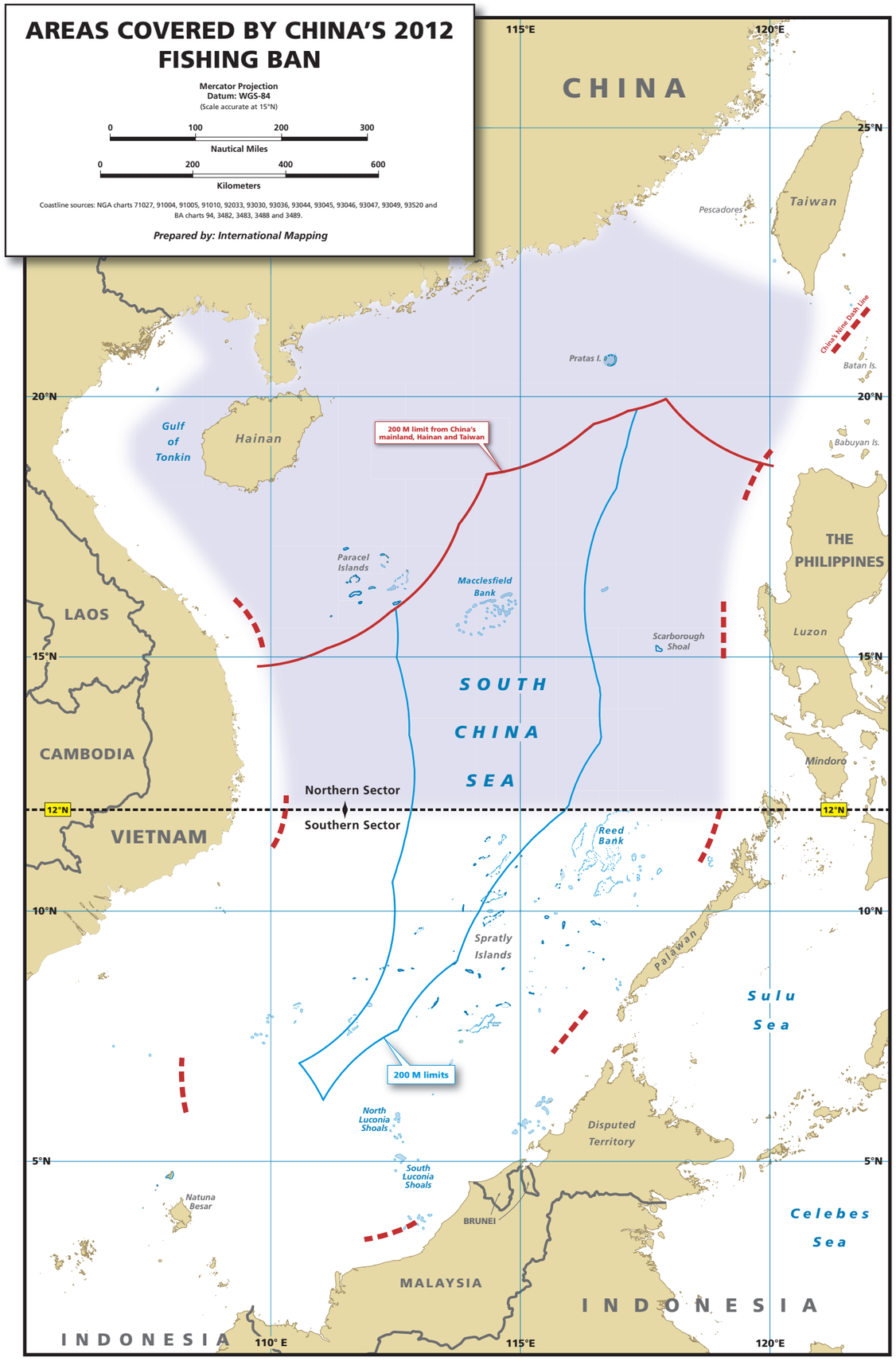

AREAS COVERED BY CHINA'S 2012 FISHING BAN
Mercator Projection
Datum: WGS-84
(Scale accurate at 15°N)
0 100 200 300
Nautical Miles
0 200 400 600
Kilometers
Coastline sources: NGA charts 71027, 91004, 91005, 91010, 92033, 93030, 93036, 93044, 93045, 93046, 93047, 93049, 93520 and BA charts 94, 3482, 3483, 3488 and 3489.
Prepared by: International Mapping
CHINA
Taiwan
Pescadores
Pratas I.
China's Nine Dash Line
Batan Is.
Babuyan Is.
Gulf of Tonkin
Hainan
200 M limit from China's mainland, Hainan and Taiwan
Paracel Islands
Macclesfield Bank
Scarborough Shoal
THE PHILIPPINES
Luzon
Mindoro
LAOS
CAMBODIA
VIETNAM
SOUTH CHINA SEA
Northern Sector
Southern Sector
Reed Bank
Spratly Islands
Palawan
Sulu Sea
200 M limits
North Luconia Shoals
South Luconia Shoals
Disputed Territory
Natuna Besar
BRUNEI
MALAYSIA
Celebes Sea
INDONESIA
INDONESIA
115°E
120°E
25°N
20°N
15°N
12°N
10°N
5°N
110° E
115°E
120°E

Figure 6.3

CHINA'S HAIXUN 21

Figure 6.4

CHINESE FISHING VESSEL LOADED WITH GIANT CLAMS AND CORALS AT SCARBOROUGH SHOAL

(10 April 2012)

Figure 6.5

CHINESE FISHING VESSEL DOCKING ALONGSIDE FLEC 310 NEAR SCARBOROUGH SHOAL

(21 April 2012)

Figure 6.6

AERIAL PHOTOGRAPH OF CHINESE FISHING VESSEL LOADED WITH GIANT CLAMS AND CORALS AT SECOND THOMAS SHOAL

(11 May 2013)

Figure 6.7

AERIAL PHOTOGRAPHS OF MISCHIEF REEF

(4 December 2003)

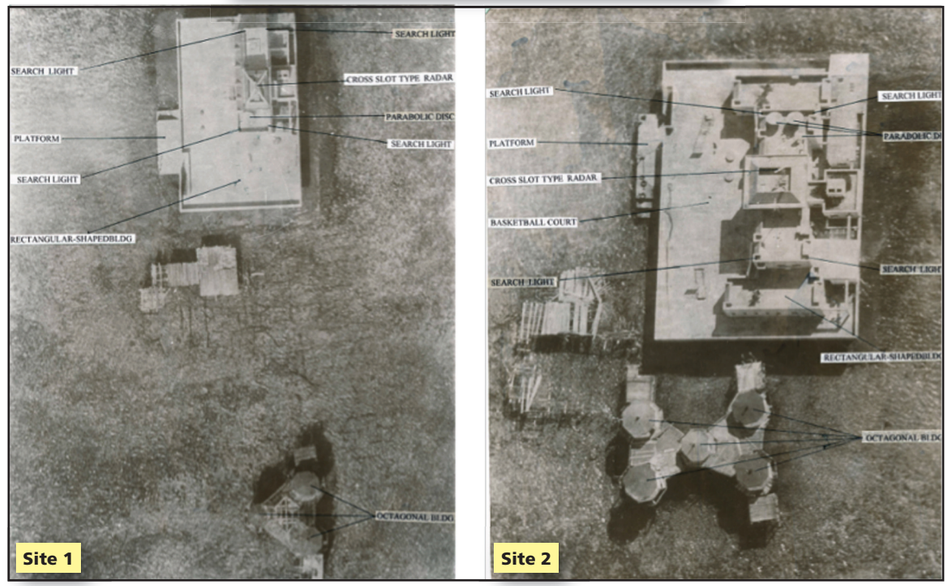


Figure 6.8

AERIAL PHOTOGRAPH OF SITE 1 AT MISCHIEF REEF

(27 February 2013)

Figure 6.9

AERIAL PHOTOGRAPH OF SITE 2 AT MISCHIEF REEF

(27 February 2013)

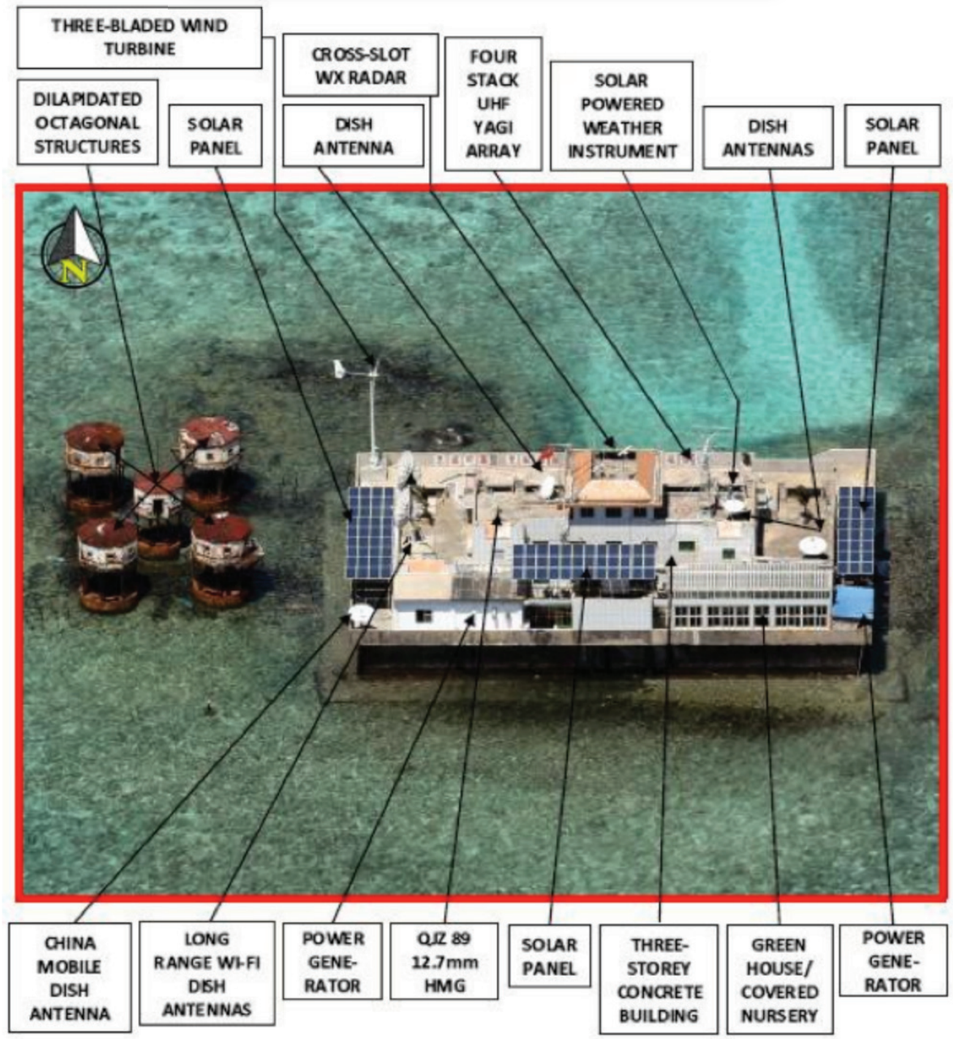
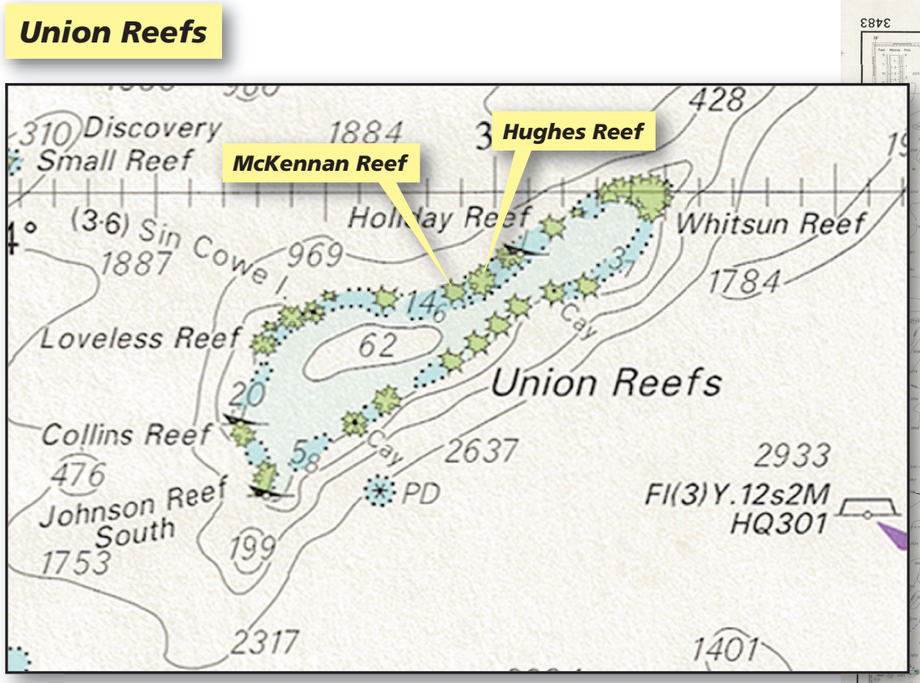


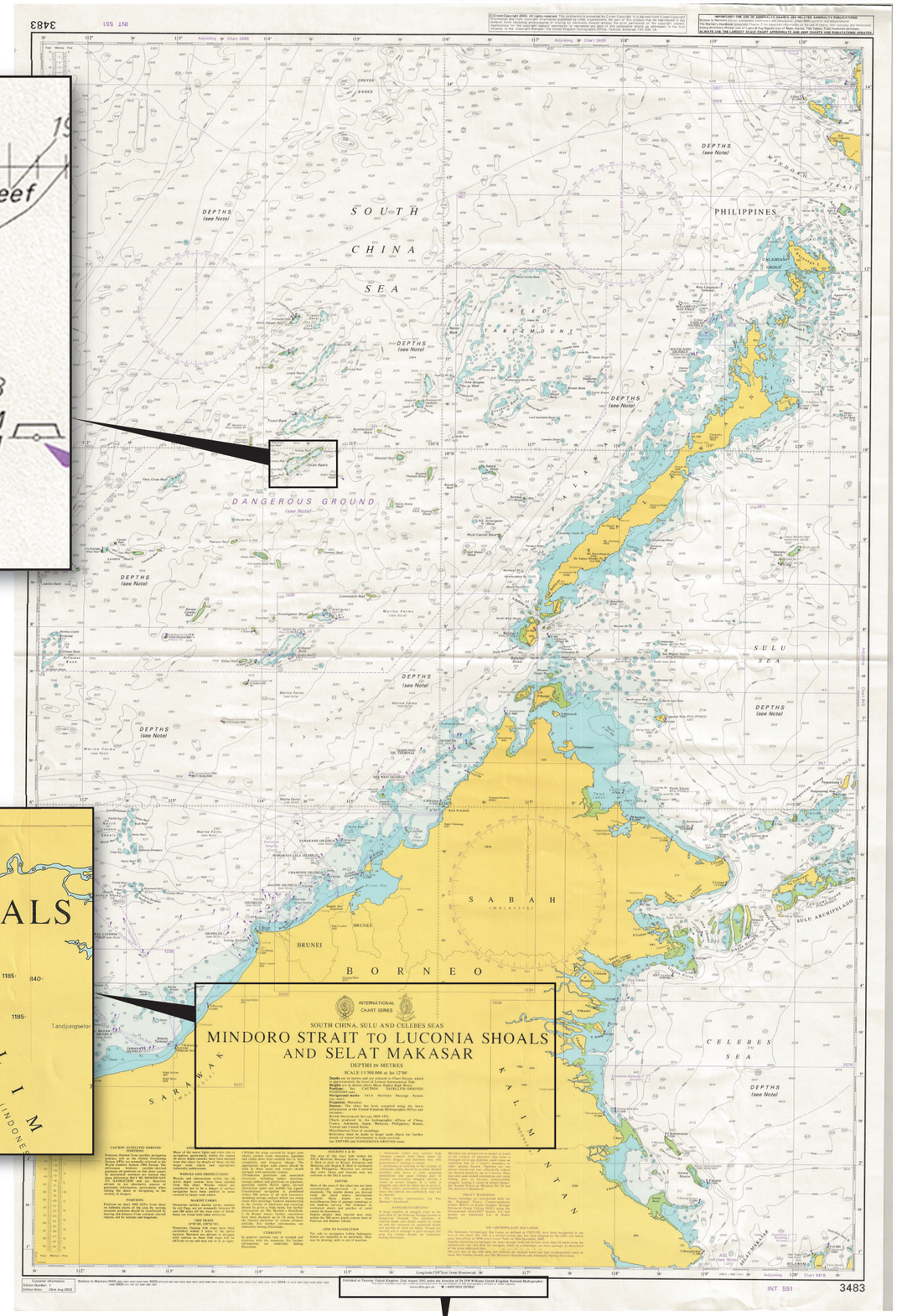
Figure 6.10

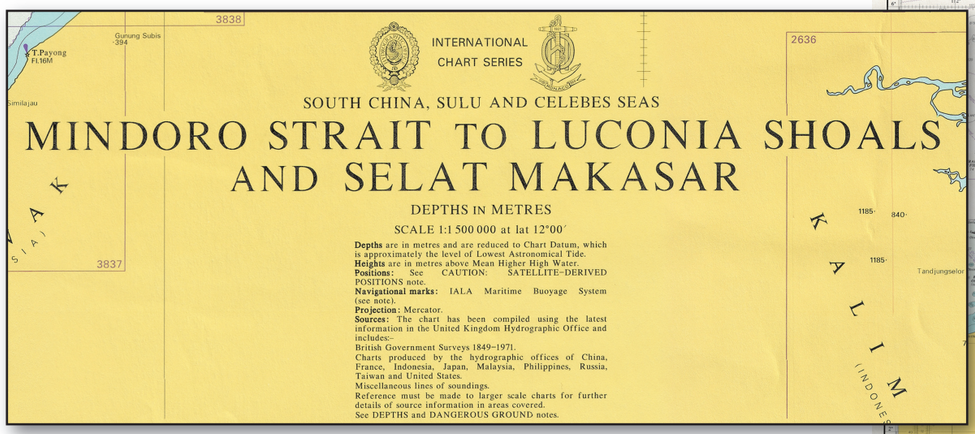
CHINA'S FLEC 310

Figure 6.11

BRITISH ADMIRALTY CHART 3483







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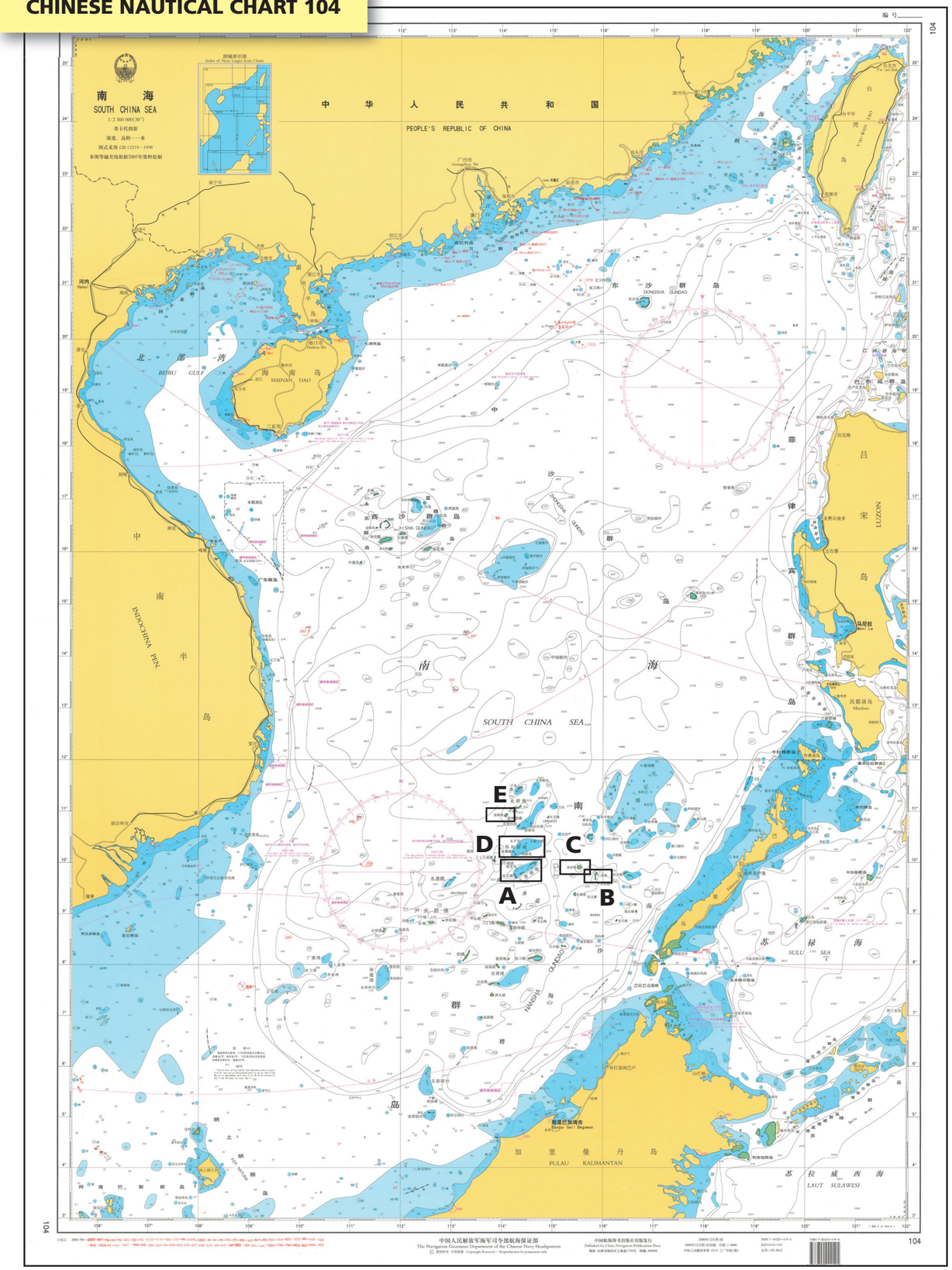
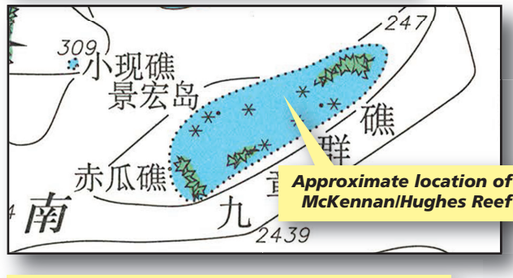
Annex NC1

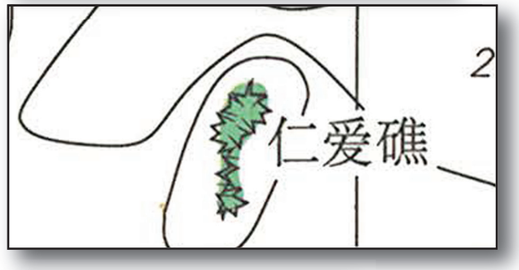
CHINESE NAUTICAL CHART 104



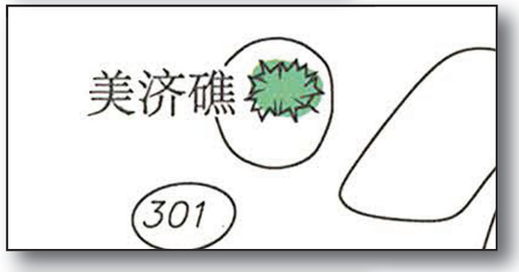
A: Union Reef (Jiuzhang Quinjiao)



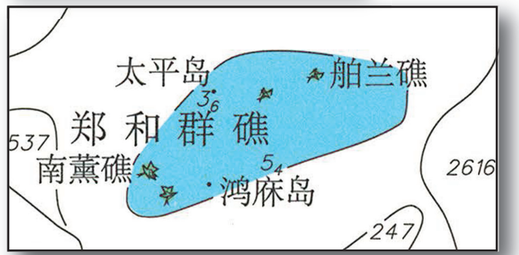
B: Second Thomas Shoal (Ren'ai Jiao)



C: Mischief Reef (Meiji Jiao)

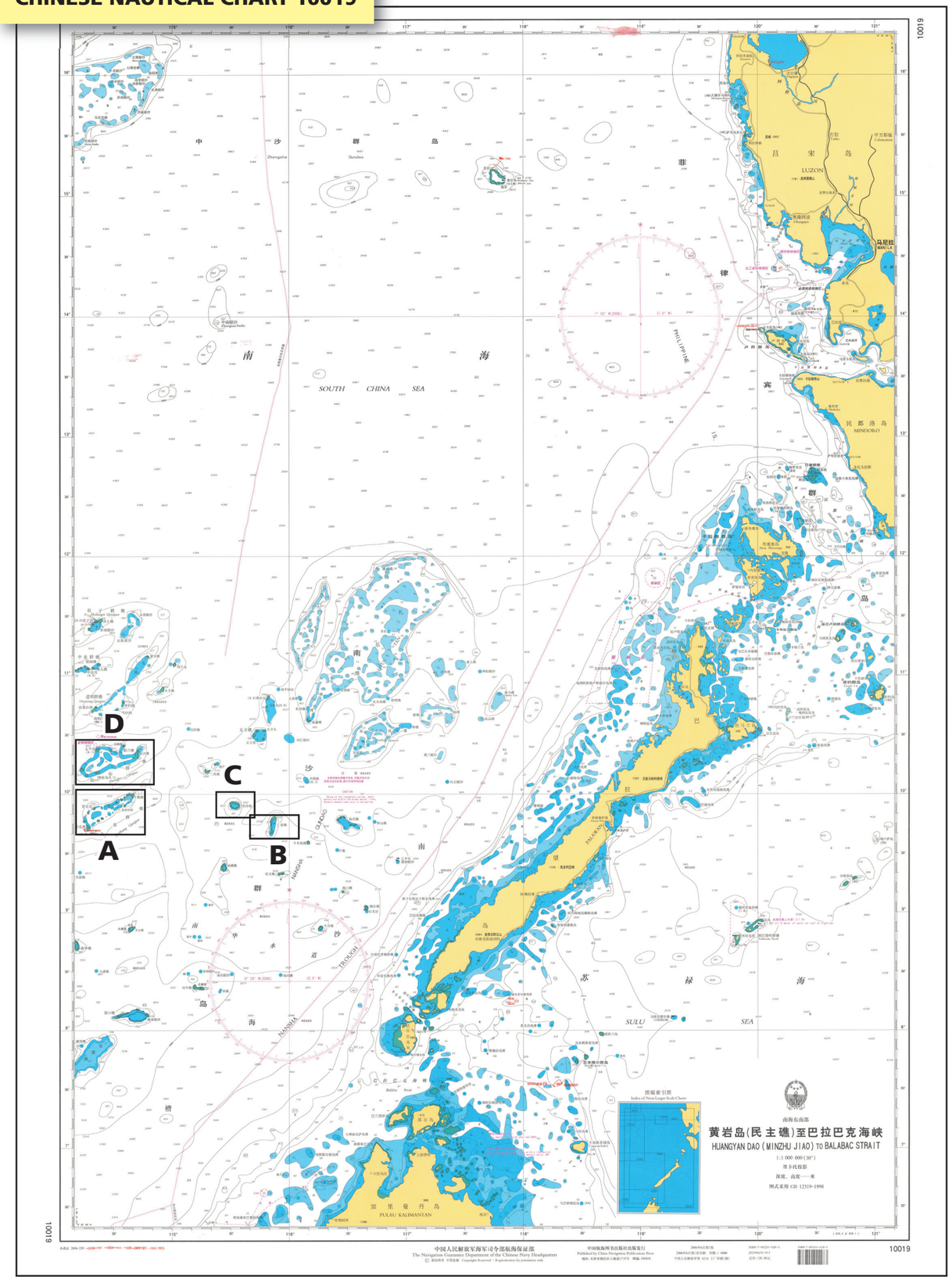


D: Gaven Reef (Nanxun Jiao)



E: Subi Reef (Zhubi Jiao)

CHINESE NAUTICAL CHART 10019



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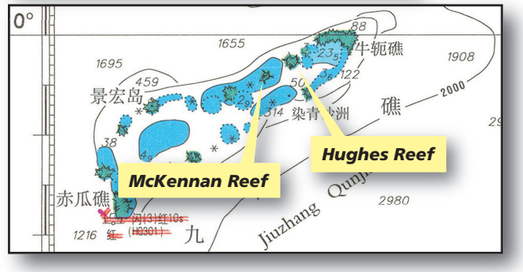

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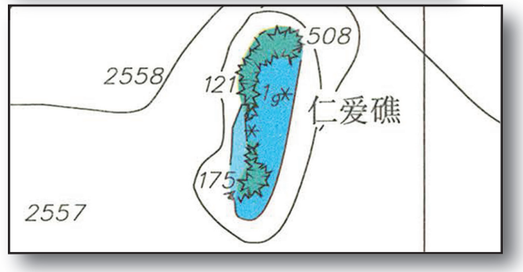

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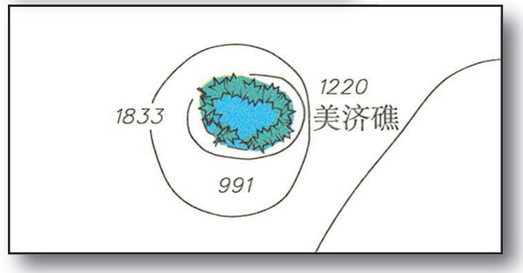

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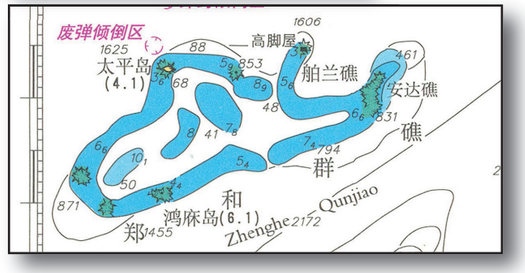

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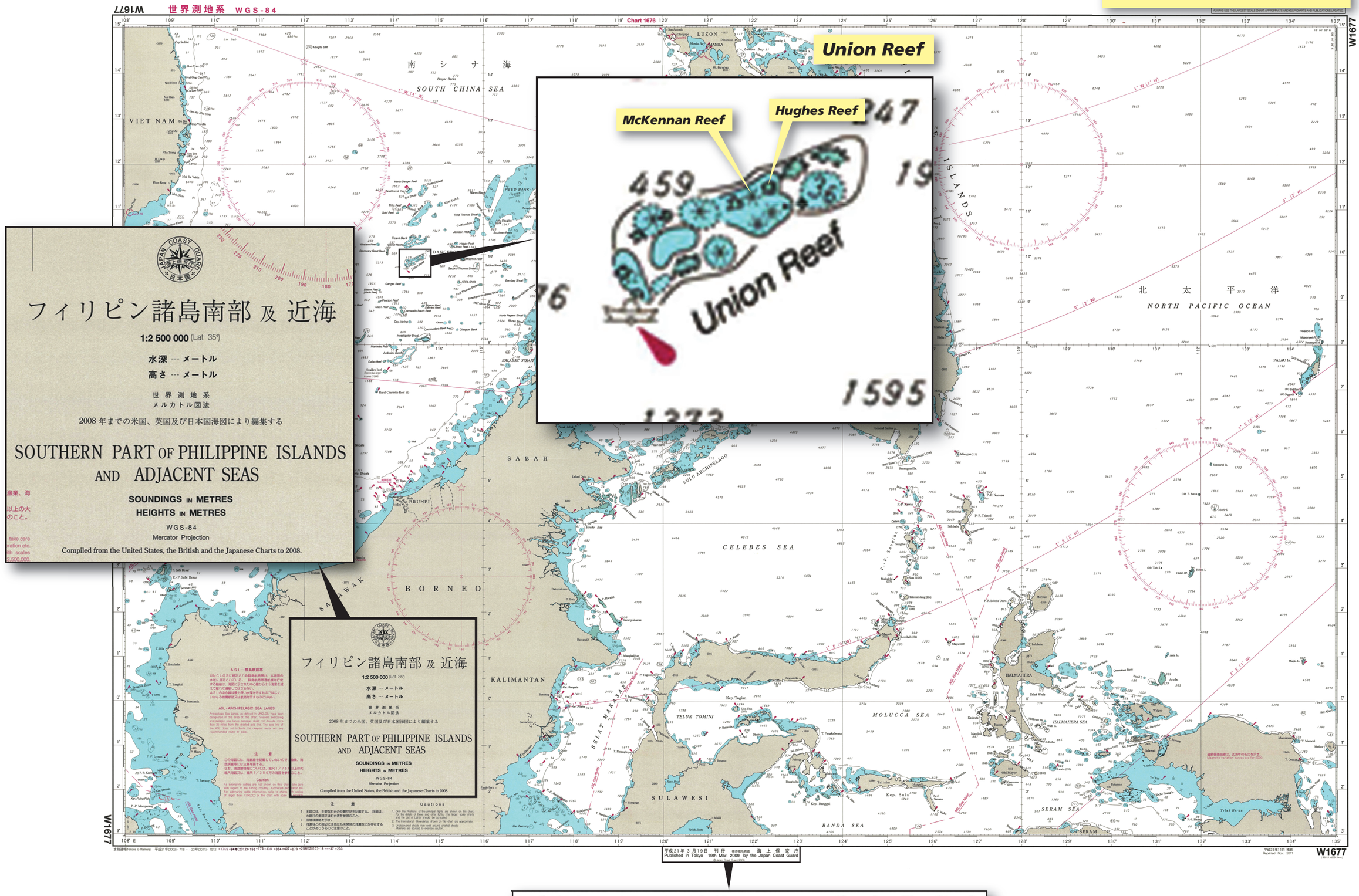
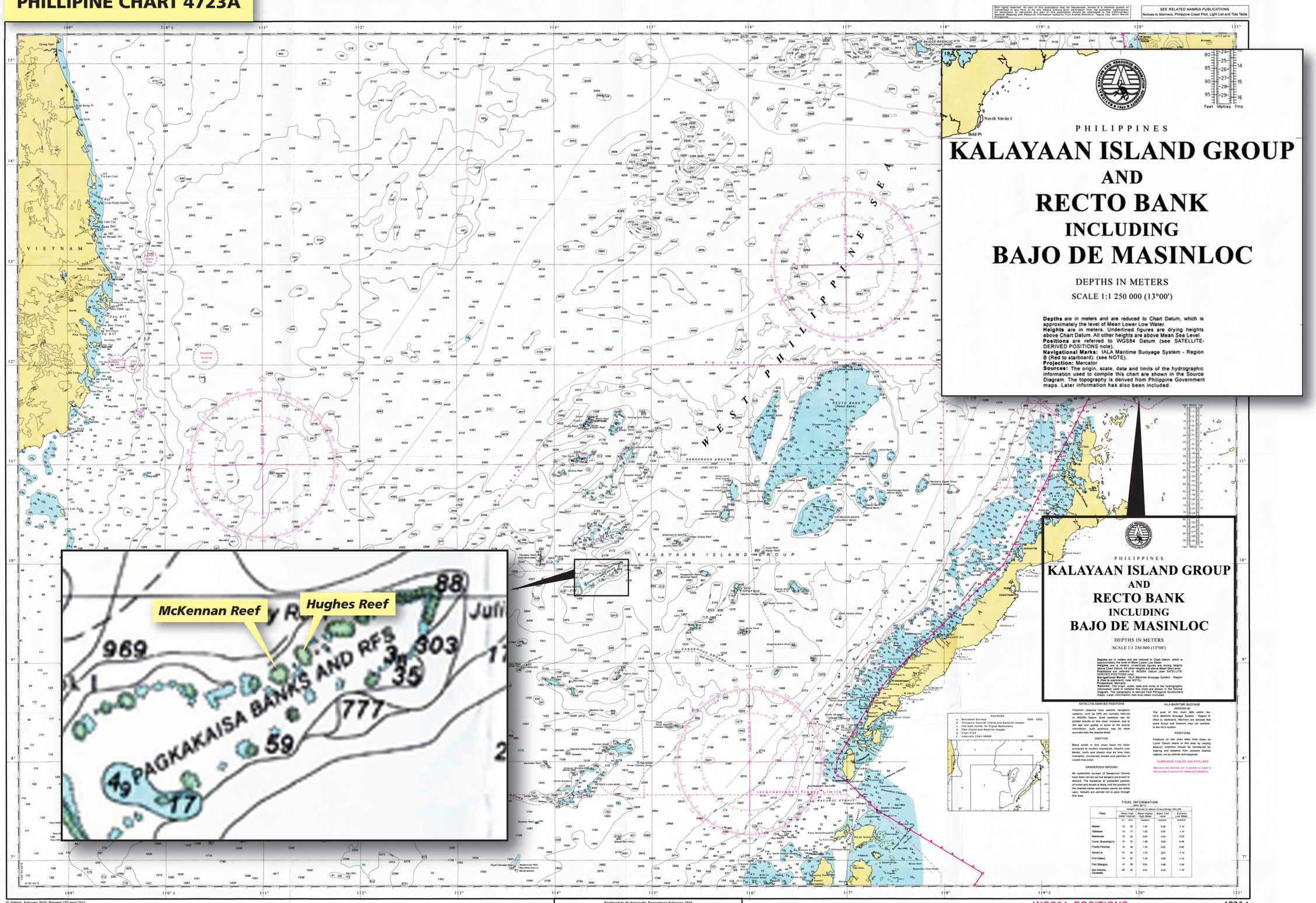


Annex NC4

PHILLIPINE CHART 4723A



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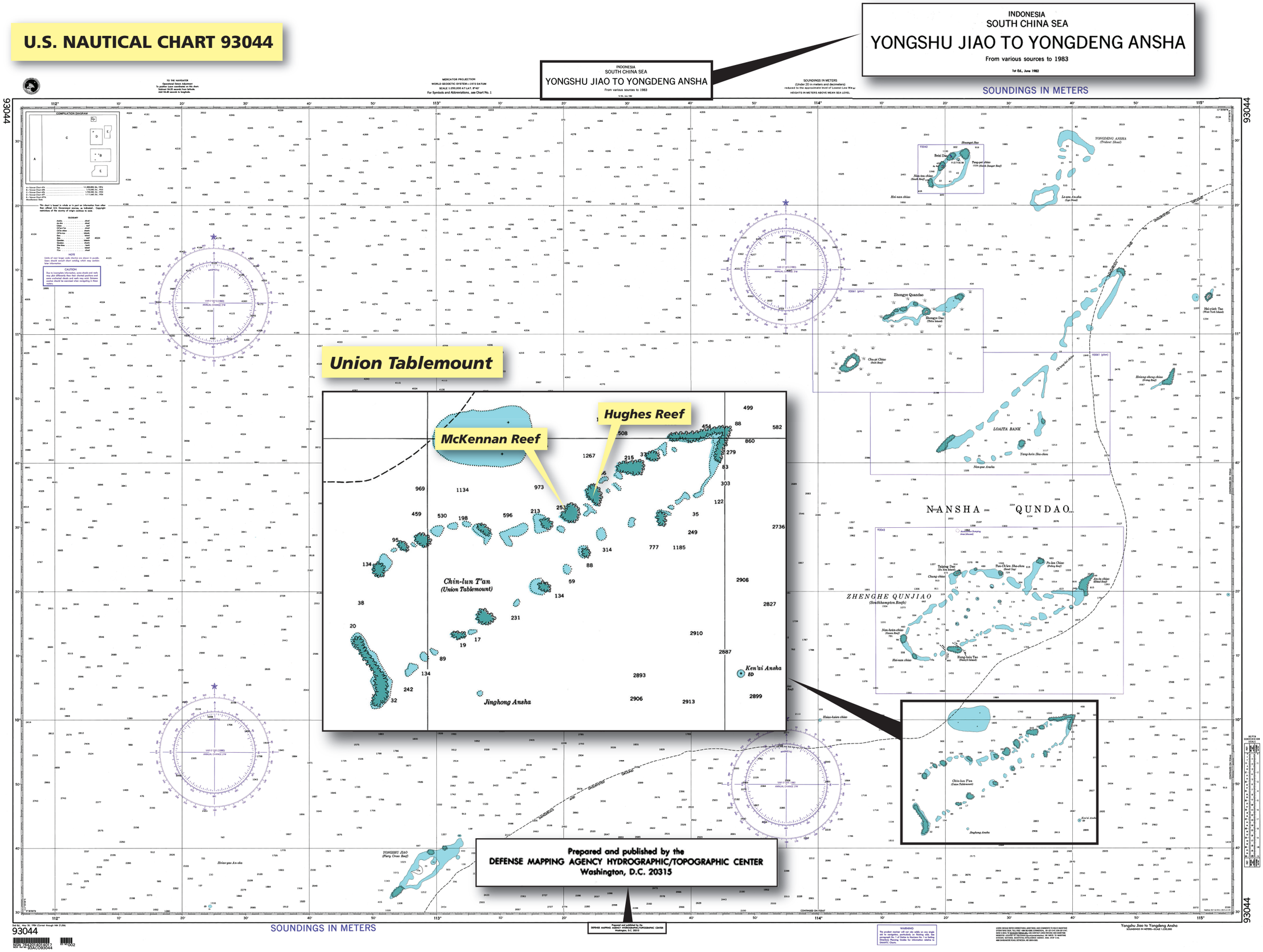

Annex NC6

Hanging Map of the People's Republic of China

Annex M1

Large Map of the People's Republic of China

Annex M2

Large Map of the People's Republic of China

Annex M3

Hanging Map of the People's Republic of China

Annex M4

Map of the People's Republic of China

Map of the People's Republic of China

Annex M6

Map of the People's Republic of China

Map of the People's Republic of China

Map of the People's Republic of China

Annex M9

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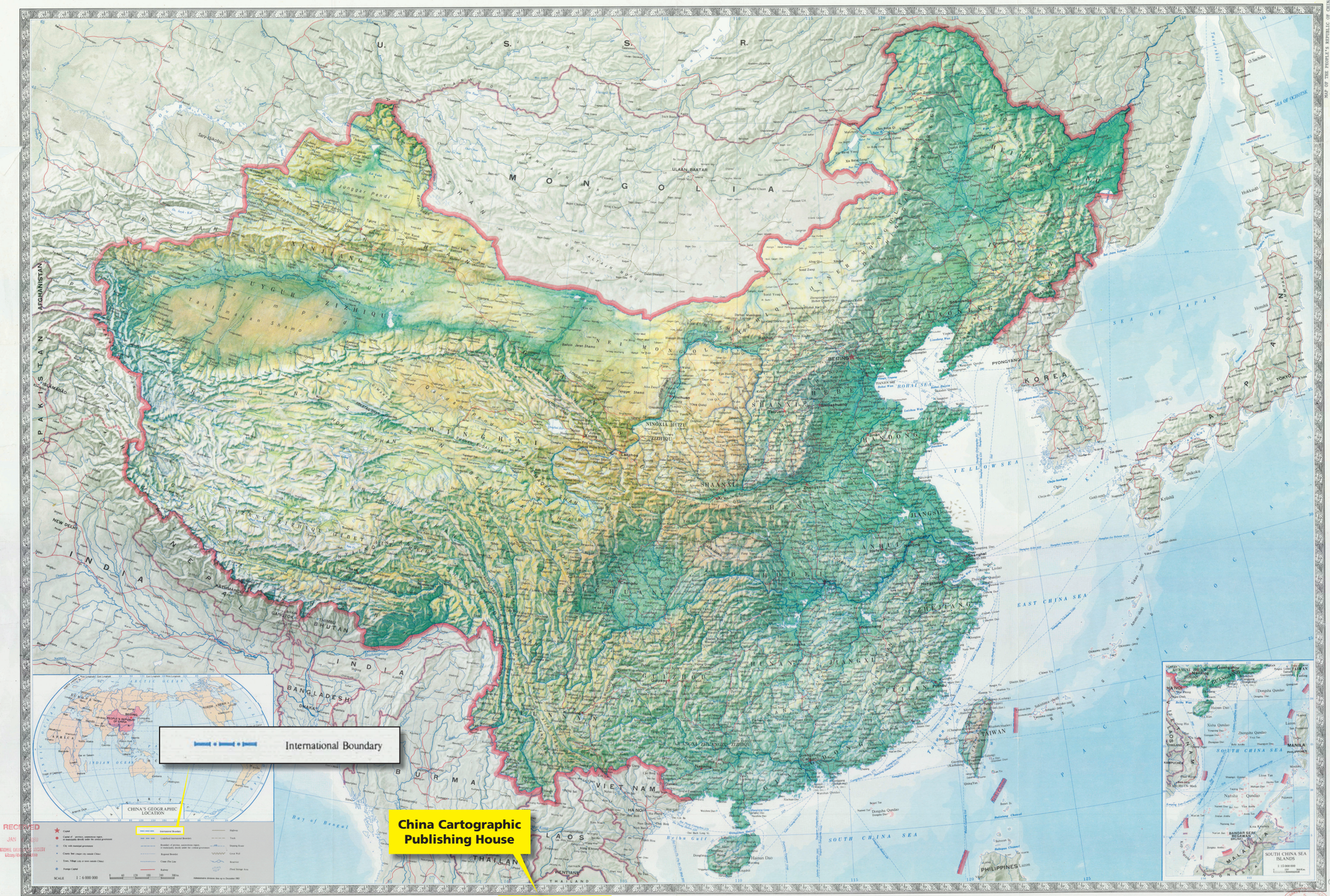

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Annex M17

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